## FORM P-3 MANUFACTURER'S DATA REPORT FOR WATERTUBE BOILERS, SUPERHEATERS, WATERWALLS, AND ECONOMIZERS As Required by the Provisions of the ASME Code Rules, Section I



MASTER DATA REPORT

(Check one)

YES X

\*Corrected Copy

| 1. Ma         | anufactured by     |               |  |                    | Cleaver-Br                         | ooks 6940    | Cornl    | husker Highway         | Lincoln, NE 6850       | )7-3115                        |                          |  |
|---------------|--------------------|---------------|--|--------------------|------------------------------------|--------------|----------|------------------------|------------------------|--------------------------------|--------------------------|--|
| 2. Ma         | anufactured for    | Southern      | Co. Services                             | 24 Inverness Ct    | r Pkwy Birmingha                   |              |          | address of manufact    | turer)                 |                                |                          |  |
| 3 lo          | cation of instal   | lation Mice   | issioni Power                            | Co. Kemper Co      | ounty (IGCC Fac                    |              |          | d address of purchas   | ser)                   |                                |                          | ······································ |
| v. <b>L</b> o |                    |               | issippi i owei                           | Oo. Reinper oo     | Junty (1000 Fac                    |              |          | and address)           |                        |                                |                          |  |
| 4. Ur         | nit identification | n:V           | Vatertube Boile                          | er ID No           | os. CP-41                          |              | (142110  | -                      | 521-2074               |                                | 1625                     | 2011                                   |
|               |                    |               | lete boiler, supert<br>wall, economizer, |                    | (Manufacturer's                    | Serial No.)  |          | (CRN)                  | (Drawing No.           | .) (Nat'i E                    | Board No.)               | (Year built)                           |
|               |                    | d physical p  | roperties of al                          | parts meet the     | requirements of n<br>ASME BOILER A |              |          |                        |                        |                                | SEL CODE. The of Edition | fesign,                                |
| Ad            | Idenda to          |               |  | 2009               |                                    | (if appli    | cable)   | , and Code Case        | 15                     | (Y                             | ear)                     |  |
| , ,           |                    |               |  | (Date)             |                                    | — (" app     | oubic).  | , and oode odde        |                        | (Nui                           | mbers)                   |  |
| -<br>-        | upporting Man      | ufacturer's [ | Data Reports                             | properly identifie | d and signed by (                  | Commission   | ned In   | spectors are atta      | sched for the follo    | wing items of this             | s report:                |  |
| **            | 6 (a) 1 Steam I    | Orum Wagne    | er Plate Works                           | (S)10-7763-        | (Name of part, item no             | umber, manuf | acturers | s name, and identifyi  | ng Designator)         |                                |                          | •                                      |
| *             | Economizer 8       | By Economa    | sters 11070                              | (S)                |                                    |              |          |                        |                        |                                |                          |  |
| 6(a). I       | Drums              |               |  |                    |                                    |              |          |                        |                        |                                |                          |  |
| · ·           |                    | 1             |  |                    |                                    |              |          |                        |                        |                                | Tube Hol                 | e Ligament                             |
|               |                    |               |  |                    | Shell F                            | Plates       |          |                        | Tube                   | sheets                         | Efficie                  | ency, %                                |
|               | Inside             |               |  | Material S         | Spec. No.,                         |              |          |                        |                        |                                | Longitu-                 | Circum-                                |
| No.           | Diameter           |               | e Length                                 | Gra                |                                    | Thickne      | ss       | Inside Radius          | Thickness              | Inside Radius                  | dinal                    | ferential                              |
| 1             | **                 |               | **                                       | <b>*</b> :         |                                    | **           |          | **                     | **                     | -                              | 42.92%                   | 57.77%                                 |
| 2             | 22.624             | 4:            | 2'-4"                                    | SA-1               | 06-C                               | 0.688        |          | 11.312                 | -                      | -                              | 42.92%                   | 37.46%                                 |
| 3             | <u> </u>           |               | -  | -                  | •                                  |              |          | · ·                    | -                      | -                              | -                        | -                                      |
|               | Longit             | udinal        | Cir                                      | cum.               |                                    |              |          |                        |                        |                                |                          |  |
|               | Join               | nts           | Jo                                       | oints              |                                    |              |          | Head                   | ds                     |                                |                          | Hydro-                                 |
|               | No. &              | Effi-         | No. &                                    |                    | Material Spec. No                  | o.,          |          |                        |                        | Radius                         | Manholes                 | static                                 |
| No.           | type*              | ciency        | type                                     | ciency             | Grade                              |              |          | ckness                 | Type**                 | of Dish                        | No. Size                 | Test                                   |
| 1             |                    | *             | 2 (2)                                    | 100%               | SA-516-70                          |              | .25      | 1.20                   | Ellipsoidal            |                                | (2) 14" x 18"            | -                                      |
| 3             | 0 (1)              | 100%          | 3 (2)                                    | 100%               | SA-516-70                          |              | 888      | 11.312                 | Ellipsoidal            | -                              | (2) 14" X 16             | -                                      |
|               | ate if (1) Seam    | -<br>(0) F::- | -:                                       | <u> </u>           | -                                  |              |          |                        | **!!::                 | (4) Flat (2) Piaha             |                          | -<br>(4) !!==i==b==i==!                |
|               | Boiler Tubes       | iess, (2) ru: | sion weided.                             |                    |                                    |              |          | 6(c). Headers          |                        | (1) Flat, (2) Dishe            | u, (3) Ellipsoldal,      | (4) Hemispherical                      |
|               | Diameter           |               | Thickness                                | Motor              | iol Spac No. Cro                   | ıda İ        | 1        |                        | (1                     | Box or sinuous or rour         | nd; Material spec. no.   | ; Thickness)                           |
|               | 2" OD              |               | 0.105 MW                                 | Iviatei            | rial Spec. No., Gra<br>SA-192      | iue          |          | Heads o                |                        |                                | dro. Test                | *                                      |
| -             | 2" OD              | -             | 0.105 MW                                 |                    | SA-210 A-1                         |              |          |                        | *****                  | oe; Material<br>o.; Thickness) |                          |  |
| <del> </del>  |                    | <del>`</del>  | -  |                    | ON ZION I                          |              |          | 6(d). Staybolts        |                        | ,                              | _                        |  |
|               |                    |               | •  |                    |                                    |              |          |                        |                        | Material spec. no.; Dia        | ameter; Size telltale; N | let area)                              |
|               |                    |               | •  |                    |                                    |              |          | Pitch                  | -                      | Net Area                       | - MA                     | .WP -                                  |
|               |                    | <b>L</b>      |  |                    |                                    |              | ,        | (H                     | lorizontal and Vertica |                                | (Supported by one bolt)  |  |
| 6(e). I       | Mud Drum           |               |  |                    | Heads or Ends                      |              |          |                        | Hydro                  | . Test                         |                          |  |
|               |                    |               | ader boilers. State                      |                    |                                    | (Shap        | e; Mate  | rial spec. no.; Thickr | ness)                  |                                |                          | <del></del>                            |
|               |                    | Mater         | rial spec. no.; This                     | ckness)            |                                    |              |          |                        | 7                      |                                |                          |  |
| 7(a). \       | Waterwall Head     | ders          | Material                                 | <u> </u>           |                                    | Heads or     | ⊏nds     | Motorial               | Ludes                  | 7(b). Waterw                   | /all Tubes               | Material                               |
| No.           | Size and S         | hane          | Spec. No.                                | Thickness          | Shape                              | Thickne      | 225      | Material<br>Spec. No.  | Hydro.<br>Test         | Diameter                       | Thickness                | Spec. No.                              |
| 2 FR          |                    | <del></del>   | SA-106-B                                 | 0.337              | Silape                             | THICKIE      |          | - Cp00.140.            |                        | 2" OD                          | 0.105 MW                 | SA-192                                 |
| 1 BR          | 3.826" ID I        |               | SA-106-B                                 | 0.337              | <del> </del>                       |              |          | -                      | <del> </del>           | 2" OD                          | 0.105 MW                 | SA-192                                 |
| 1 AD          | 2.900" ID I        |               | SA-106-B                                 | 0.300              | FLAT PLATE                         | 0.500        | )        | SA-516-70              |                        | 2" OD                          | 0.105 MW                 | SA-192                                 |
|               |                    |               |  | 1                  | 1                                  | 1 3.000      |          | 1                      | <u> </u>               | <u> </u>                       | <del></del>              |  |
| υ(a). I       | Economizer He      | auers         | -  |                    | -                                  | _            |          | -                      | T .                    | 8(b). Econor                   | Tubes                    |  |
| -             | -                  |               | -  | -                  |                                    | -            |          | -                      | -                      | -                              | -                        | -                                      |

521-2074

4625

|          | -                    |                          | (Mfr's.                | Serial No.)         | (CRI   | N) (       | Drawing No.)                           | (Nat'l Boa                    | rd No.)                |                  |                    |
|----------|----------------------|--------------------------|------------------------|---------------------|--------|------------|--|-------------------------------|------------------------|------------------|--------------------|
| 9(a). S  | uperheater Heade     | ers                      |                        |                     | Head   | s or Ends  |  | T                             | 9(b). Superhe          | eater Tubes      |                    |
| - (/-    |                      | Material                 |                        |                     |        |            | Material                               | Hydro.                        | (2)                    |                  | Material           |
| No.      | Size and Shap        | e Spec. No.              | Thickness              | Shape               | Thi    | ickness    | Spec. No.                              | Test                          | Diameter               | Thickness        | Spec. No.          |
| 1 UP     | 9.062" ID PIPE       | SA-335 P22               | 0.844                  | FLAT PLATE          | (      | 0.750      | SA-387 Gr22                            | -                             | 2" OD                  | 0.135 MW         | SA-213 T22         |
| 1 LW     | 9.062' ID PIPE       | SA-335-P22               | 0.844                  | FLAT PLATE          | (      | 0.750      | SA-387 Gr22                            | -                             | 2" OD                  | 0.135 MW         | SA-213 T22         |
| -        | -                    | _                        | -                      |                     |        | -          | -                                      | -                             | •                      | -                | - '                |
| 10(a).C  | ther Parts (1)       | Stam Drum Many           | way Rings (2)          | Water E             | Orum № | lanway Rir | ngs (3)                                | Feedw                         | ater Piping            | 10(b) Tub        | es for Other Parts |
| 1        | 14" X 18" ELL        | P SA-516-70              | 1.00                   | -                   |        | -          | •                                      | -                             | -                      |                  | -                  |
| 2        | 12" X 16" ELLI       | P SA-106-B               | 1.00                   | -                   |        | -          |  |                               | -                      |                  | -                  |
| 3        | 6.065" ID PIPI       | E SA-106-B               | .280"                  | RFWN FLG            | (      | 300#       | SA-105                                 | -                             | -                      | -                | -                  |
| 11. Op   | enings (1) Stear     | n (1                     | ) 12" PIPE SCH 8       | 0 B.W. SA-106-B     |        |            | (2) Pressure F                         | Relief Valve                  | (2)4"600               | # RFLWN FLG      | SA-105             |
|          |                      |                          | No., size, and type of | nozzles or outlets) |        |            |  | (No., size, an                | d type of nozzles or o |                  |                    |
|          | (3) Blow             | off (2                   | 2) 1-1/2" 600# RF      | WN FLG SA-105       | j      |            | (4) Feed                               | (1) 6" 600#                   | RFWN FLG SA-1          | 05 Steam Drum I  | Burner End         |
|          | Г                    |                          | No., size, and type of |                     |        | Heati      | 200                                    |                               | , and location of conn | ections)         |                    |
|          |                      | Maximum Allowable        | Formula on Whice       |                     | ro     | Surfa      | ·                                      | Heating surface be stamped or | ce to                  | 13. Field        | d Hydro.           |
| 12.      | . 1                  | Working Pressure         | MAWP is Base           | 1 '                 |        | Surfa      | 1 1                                    | on drum head                  |                        | Te               | est                |
| a        | Boiler               | 450 PSIG                 | PG,23,27,29,33,5       |                     |        | 7584       | <b></b>                                |                               |                        |                  | -                  |
| b        | Waterwall            | 450 PSIG                 | PG,23,27,31,52         |                     |        | 1504       | —— I.                                  | This heating s                |                        |                  | -                  |
| С        | Economizer           | -                        | -                      | -                   | -      |            | , ر 💳                                  | not to be used determining m  |                        |                  | -                  |
| d        | Superheater          | 450 PSIG                 | PG,23,27,29,33,5       | 52, 675 PSI         |        | 699        | <b>,</b> ] ]/                          | mum pressure valve capacity   |                        |                  | -                  |
| е        | Other Parts          | 450 PSIG                 | PG,23,28,33,44         |                     | G      | -          |  |                               | · [                    |                  | -                  |
| 14. Ma   | ximum Designed       | Steaming Capacity        | 214.00                 | )n                  |        | <u> </u>   |  |                               |                        |                  |                    |
|          | _                    | ctions to item 11 exce   |                        |                     | ,      | aabadula ( | 00 SA 10S B Eigl                       | d wolde required t            | iald budes toot es     | aurio d          |                    |
| io. ivei | NO CONTIE            | ections to item 11 exce  | ept at listed . All th | readed piping mir   | nımum  | schedule d | 50 SA-106-B. Flei                      | a welas requirea i            | ieia nyaro test red    | quned            |                    |
| _        |                      |                          |                        |                     |        |            |  |                               |                        |                  |                    |
| _        |                      |                          |                        |                     |        |            |  |                               |                        |                  |                    |
|          |                      |                          |                        | CERTIE              | CATE   | OF SHO     | P COMPLIANO                            | re .                          |                        |                  | -                  |
| Wed      | ertify that the sta  | tements made in this     | data report are c      |                     |        |            |  |                               | manship of this b      | oiler            |                    |
|          | -                    | of the ASME BOILER       | •                      |                     |        | 3          | ,                                      | •                             | ·                      |                  |                    |
|          | Certificate of Autl  |                          | 1,769                  | to use the (S)      |        | S          | Designator ex                          | kpires                        | 03/3                   | 30/13            |                    |
| Date     | 4.23-1               | 7 Signed                 | Q D                    | -// Da              | 7      | -0         |  | lame Cleaver-Bro              | aoke.                  |                  |                    |
| Date     | 7201                 |                          | Ball                   | (Authorized Repr    | esenta | tive)      |  | - Cleaver-Dir                 |                        | facturer)        |                    |
|          |                      |                          |                        |                     |        |            | NO INCOPRATIO                          |                               | (Inche                 | iladiaror)       |                    |
| Boile    | er made by Clear     | vas Dunaka               |                        | CERTIF              | ICATI  | = OF SHC   | OP INSPECTIO                           |                               | s Highway Tingo        | In No. 60507 211 | 15                 |
|          |                      | holding a valid          | commission is          | scued by the        | Mati   | onal Bor   | atat                                   |                               | r Highway Linco        |                  |                    |
| HSB      |                      | noiding a valid          | COMMISSION             | saled by the        | INGU   | Jilai Doa  | ild of boller                          | and riessure                  | vesser mape            |                  | inployed by        |
| 1100     | 01                   |                          |                        |                     |        |            |  |                               |                        |                  |                    |
|          |                      | -                        |                        |                     |        |            |  | d to as data ite              |                        |                  | (a), 9 (b),        |
|          | 10 (a), 11< 1:       | 2 (a), 12 (b), 12 (d),12 | (e), 14, 15,           | and have e          | examir |            | •                                      | rer's Data Repo               | _                      | 6 (a) 1          |                    |
|          |                      |                          | <u>.</u>               |                     |        |            |  | he best of my k               | nowledge and t         | pelief, the Manu | ıfacturer has      |
|          |                      | er in accordance wi      |                        |                     |        |            |  |                               |                        |                  | 4                  |
|          |                      | tificate neither the     | •                      |                     |        | -          |  | ·                             | _                      |                  |                    |
|          |                      | Report. Furthermo        | •                      | •                   | nis    | employer   | snall be liable                        | in any manner                 | ror any persona        | i injury or prop | eny damage         |
| UI a     | loss of any kil      | nd arising from or o     | connected with t       | nis inspection.     |        |            |  |                               |                        |                  |                    |
| Date     | 4/83/                | Signed _                 | den                    | 1 le                | 7      |            | Commissio                              | ons                           | Nat'l Bd 11808         | A, B, NE 10000   |                    |
|          |                      |                          | (A                     | Authorized Inspec   | (or)   |            |  | [National B                   | oard Commission        | Number and En    | dorsement]         |
|          |                      |                          | CE                     | RTIFICATE OF        | FIEL   | D ASSE     | MBLY COMPLI                            | ANCE                          |                        |                  |                    |
| We       | certify that the fie | ld assembly of all par   |                        |                     |        |            |  |                               | AND PRESSURE           | VESSEL           |                    |
| COL      | E.                   | •                        |                        |                     |        |            |  |                               |                        |                  |                    |
| Our      | Certificate of Aut   | horization No.           |                        | to use the (A) o    | or (S) | -          | Designator e                           | xpires                        |                        |                  |                    |
| Date     |                      | Signed                   | ····                   | _                   |        |            |  | lame -                        |                        |                  |                    |
|          |                      |                          |                        | (Authorized Reor    | esenta | ative)     | ······································ |                               | (Asse                  | embler)          |                    |

Form P-3

Boiler No.

CP-4143

521-2074

4625

(Mfr's. Serial No.) (CRN) (Drawing No.)

(Nat'l Board No.)

|             | <del>-</del> |            |           | <del></del> -   | CERTIFIC    | ATE C    | F FIELD   | ASSEME    | RI Y INSPI   | CTION   |             |           | ·i           |          |            |      |
|-------------|--------------|------------|-----------|-----------------|-------------|----------|-----------|-----------|--------------|---------|-------------|-----------|--------------|----------|------------|------|
| I, the und  | dersigned,   | holding    | a valid   | commission      |             |          |           |           |              |         | -           | Vessel    | Inspectors   | s and    | employed   | i by |
|             | -            | have co    | mpared s  | statements in t |             |          |           |           |              |         |             |           | •            |          |            |      |
| and belief  | the Manu     | ufacturer  | and / or  | the assemble    |             |          | =         | •         |              |         | •           |           |              |          | •          | -    |
| BOILER A    | ND PRES      | SURE V     | ESSEL     | CODE. The       | described   | boiler v | was inspe | cted and  | d subjecte   | d to a  | hydrostat   | ic test o | of           | -        |            | psi. |
| By signing  | this cer     | tificate n | either th | e Inspector r   | or his en   | nployer  | makes a   | ny warra  | anty, expr   | essed   | or implied  | concern   | ing the bo   | oiler de | scribed i  | this |
| Manufacture | er's Data    | Report.    | Furtherm  | ore, neither    | the Inspec  | tor nor  | his emp   | loyer sha | all be liabl | e in an | y manner    | for any p | ersonal inju | ry or pr | roperty da | mage |
| or a loss   | of any       | kind aris  | ing from  | or connecte     | ed with th  | is insp  | ection.   |           |              |         |             |           |              |          |            |      |
| Date        | 11/21/11     | 5          | Signed    |                 |             |          |           |           | Commiss      | sions   |             |           | -            |          |            |      |
|             |              |            | _         |                 | (Authorized | linenec  | tor)      |           | _            | -       | [National B | nard Com  | niesion Num  | her and  | Endorsem   | entl |



## FORM P-7 MANUFACTURER'S DATA REPORT FOR SAFETY VALVES As Required by the Provisions of the ASME Code Rules, Section I

| . Boiler mar  | nufactured by Cl    | eaver-Brooks 6       |                    | ker Highway Lincoln, NE                         | 68507-3115 , P-7             | ID No.    | CP-           | 4143                                      |
|---------------|---------------------|----------------------|--------------------|---|------------------------------|-----------|---------------|---|
| . Boiler mar  | nufactured for So   | uthern Co. Serv      |                    | dress of manufacturer) rness Ctr Pkwy Birmingha |                              |           |               |   |
| . Location o  | f installation Mis  | sissippi Power       | Co. Kemper C       | County (IGCC Facility) L                        |                              | er)       |               |   |
| . Unit identi | fication            | Water                | rtube Boiler       | ۱)<br>ID Nos.                                   | lame and address)<br>CP-4143 | -         | 521-2074      | 4625                                      |
|               | (Comp               | lete boiler, superhe | ater, waterwall, e | conomizer, etc.)                                | (Mfr's. Serial No.)          | (CRN)     | (Drawing No.) | (Nat'l. Board No                          |
| Identificati  | on of Pressure R    | elief Valves         |                    |   |                              |           |               |   |
|               |                     | <u> </u>             |                    |   |                              | Material* |               |   |
| Tag           | Service             |                      |                    | Manufacturer                                    | Design or                    |           | Set           |   |
| No.           | Location            | Quantity             | Size               | Name  | Type No.                     | Conn.**   | Press.        | Capacity                                  |
| PSV-03480     | Steam Drum          | 1                    | 4"                 | Consolidated                                    | 1811NB                       | (5)(D)    | 420           | 87,678                                    |
| -             | -                   | -                    | -                  |   | -                            | -         | -             | -   |
| PSV-08481     | Steam Drum          | 1                    | 4"                 | Consolidated                                    | 1811NB                       | (5)(D)    | 430           | 89,697                                    |
| -             | , <u>-</u>          | -                    | -                  | -   | -                            | -         | -             | -   |
| PSV-04306     | Superheater         | 1                    | 3"                 | Consolidated                                    | 1811MB                       | (2)(D)    | 370           | 58,627                                    |
| -             | -                   | -                    |                    | -   | -                            | -         | -             | -   |
| -             | -                   | -                    | -                  | -   | -                            |           | -             | -   |
| -             | -                   | -                    | -                  | -   | -                            | -         | -             | -   |
| -             | -                   | -                    | -                  | -   | -                            | -         | -             | -   |
| -             | -                   | -                    | -                  | -   | -                            | -         | -             | -   |
| _             |                     | -                    | -                  | -   | -                            | -         | -             | -   |
| -             | -                   | -                    | -                  | -   | -                            | -         | -             | -   |
| -             | -                   | 1-                   | -                  | -   | -                            | -         | -             | -   |
| -             | -                   | -                    |                    | -   | -                            |           | -             | -   |
| -             | -                   | -                    | -                  | -   | -                            |           | -             | -   |
| -             | -                   | -                    | -                  | -   | -                            | -         |               | -   |
| -             | -                   | -                    | -                  | -   | -                            | -         | -             | -   |
| 1-            | -                   | -                    | -                  | -   | -                            | -         | -             | -   |
| -             | -                   | -                    | -                  | -   | -                            | <u>=</u>  | -             | -   |
| -             | -                   |                      | -                  | -   |                              | -         | -             | -   |
| -             | -                   | -                    |                    | -   | -                            | -         | -             | -   |
| -             | ×                   | -                    | я                  | -   | -                            | ÷         | -             |   |
| * Material:   | (1) SA-216, WCB     | . (2) SA-217, W      | C6. (3) SA-21      | 7, WC9. (4) SA-182, F22.                        | (5) Other                    |           | SA216 WCC     |   |
|               | tor type: (A) Groo  | ove Weld. (B) S      | ocket Weld.        | (C) Threaded. (D) Flange                        | ed.                          |           |               |   |
|               | Circ                | uit                  |                    | Minimum Ro                                      | equired                      |           | Furnished     |   |
| oiler         | 0.101               |                      |                    | 214,00  |                              |           | 177,375       | ·<br>———————————————————————————————————— |
| conomizer     |                     |                      |                    | 211,00  |                              |           | -             |   |
| uperheater    |                     |                      |                    | •   |                              | -         | 58,627        |   |
| eheater Inlet |                     |                      | •                  | -   |                              |           |               |   |
| eheater Outl  |                     |                      |                    | -   |                              |           |               |   |
| ther          |                     |                      |                    | -   |                              |           | •             |   |
|               |                     |                      |                    | L   |                              |           |               |   |
|               | tion of Unit Reliev |                      | Yes                | i i   |                              |           |               |   |
|               | en to address capa  |                      | G-67.2.1.1.1       | PG-67.2.1.1.2                                   |                              |           |               |   |

|   |                         | ,                             |             |                            |                 |   |
|---|-------------------------|-------------------------------|-------------|----------------------------|-----------------|---|
|   | CERTIFIC                | ATE OF COMPLIANCE             |             | · .                        |                 |   |
| We certify the statements in this Manufactu | rer's Data Report for P | ressure Relief Valves to be o | correct and | I that all details conform | to Section I of |   |
| the ASME BOILER AND PRESSURE VESSE          | EL CODE.                |                               |             |                            |                 |   |
| Our Certificate of Authorization No.        | 1,769                   | to use the (S) or (M)         | S           | Designator expires         | 3/30/2013       | , |
| Date <u>4-23-12</u> Signed                  | Bobker                  | houlus -                      | Name        | Cleaver-Brooks             |                 |   |
| _   | (Authorized             | Representative)               |             | (Manuf                     | acturer)        |   |



| 1.        | Manufacturer (or Engineer | ring-Contractor) Cleave   | r-Brooks 6940 Cornhu                         | sker Highway Lincoln,      | NE 68507-3115           |
|-----------|---------------------------|---------------------------|--|----------------------------|-------------------------|
|           |                           |                           | (Na  | ime and address)           |                         |
| 2.        | Purchaser Southern        | Co. Services 24 Invern    | ess Ctr Pkwy Birming                         | Al 35242                   |                         |
|           |                           |                           | (Name and address                            | s)                         |                         |
| 3.        | Type of Boiler            |                           | Watetube Boi                                 | ler                        |                         |
|           |                           |                           |  |                            |                         |
| 4.        | Boiler No.                | CP-4143                   | _  | 521-2074                   | 4625                    |
|           | (Ma                       | anufacturer's Serial no.) | (CRN)  | (Drawing no.)              | (National Board no.)    |
|           | 2011                      |                           |  |                            |                         |
|           | (Year built)              |                           |  |                            |                         |
|           | Data Items<br>by Line No. |                           | in Laboratory Livering Annies & Laboratory . |                            |                         |
| 10        | 0 (a) 4                   | FEEDWATER PIPING Draw     | ing 504-10213 6" 300#                        | RFWN FLG SCH 40 SA-1       | 05, 6" PIPE SCH 40      |
| -         |                           | 6.065" ID .280" THK S     | A-106-B,6" ELBOW 90 D                        | EG B.W. SCH 40 SA-234      | -WPB, 6" TEE B.W.       |
| -         |                           | STD SA-234-WPB, 3" 300    |  |                            |                         |
| -         |                           | SA-106-B,6" X 3" REDU     | CER B.W. SCH 40 SA-23                        | 4-WPB.                     |                         |
| -         |                           | _                         |  |                            |                         |
| 1 (       | 0 (a) 5                   | SATURATED STEAM PIPIN     | G 12" PIPE 12.00" .37                        | 5" THK SA-106-B,12" E      | LBOW B.W. STD LONG      |
| -         |                           | RADIUS SA-234-WPB, 12"    | X 10" REDUCER B.W. S                         | TD SA-234-WPB, 10" EL      | BOW STD B.W. LONG       |
| -         | <u>-</u>                  | RADIUS SA-234-WPB, 10     | " PIPE SCH 60 9.750"                         | ID .500 THK SA-106-B,      | DRAWING 504-10209       |
| -         |                           |                           |  |                            |                         |
| 10        | 0 (a)6                    | SUPERHEATER OUTLET PI     | PING 12" PIPE SCH 40                         | 11.938" ID .406" THK       | SA-106-B,12" ELBOW      |
| -         | , <del>"</del>            | SCH 40 B.W. 90 DEG SA     | -234-WPB, 6" PIPE SCH                        | 40 6.065" ID .280" T       | HK SA-106-B             |
| -         |                           | 10" PIPE SCH 60 9.750     | " ID .500" THK SA-106                        | -B, 12" X 10" REDUCER      | B.W. EX HVY             |
| E         |                           | SA-234-WPB. DRAWING 5     | 04-10210                                     | 0 100 9/3 0000000          |                         |
| _         |                           | _                         |  |                            |                         |
| _         |                           | _                         |  | ***                        |                         |
| Ŀ         |                           |                           |  |                            |                         |
| L         |                           |                           |  |                            |                         |
| _         |                           | -                         |  |                            |                         |
| Ŀ         |                           |                           |  |                            |                         |
| <u> -</u> |                           |                           | ***  |                            |                         |
| _         |                           | -                         |  |                            |                         |
| _         |                           |                           |  |                            |                         |
| _         |                           | -                         |  |                            |                         |
| L         |                           |                           |  |                            |                         |
| Da        | ate <u>4-23-1</u>         | 2 Signed Cleaver-Brooks   |  | By Bol Kin                 | kpatuck                 |
| Da        | ate 4/23/12               |                           |  |                            |                         |
|           | cl                        | end fr                    | Commissions                                  | Nat'l Bd 11808 A           | A, B, NE 10000          |
|           |                           | (Authorized Inspector)    |  | [National Board Commission | Number and Endorsement] |

# FORM P-4 MANUFACTURERS: PARTIAL DATA REPORT As Required by the Provisions of the ASME Code Rules, Section I



| =        |                     |   |             |   |                                       |   | Mariana San Carlo                                |                  | e francisco                                      |                             |                       |                |
|----------|---------------------|---|-------------|---|---------------------------------------|---|--|------------------|--|-----------------------------|-----------------------|----------------|
| 1.       | Manufactured by     | WAGNER                                  | PLATE       | WORKS LL  | C. 4142 W. 4                          | TH STREET                               | TULSA, OKLA                                      | HOMA 7410        | 7  |                             | P-4 ID No.            | 10-7763-1      |
|          | Manufactured for    |   |             | •   | (Name                                 | and address of n                        | nanutacturer)                                    | NCOLN, NE        |  |                             |                       |                |
| J        | •                   |   |             |   |                                       |   | and address of pu                                |                  | 00307  |                             |                       |                |
| 3.       | Identification of P | art(s)                                  | ŧ.          |   |                                       | (************************************** |  | 31G18GG1)        |  |                             |                       |                |
|          | Name of Par         |   | Quantity    | Line<br>No.   |                                       | Identifying<br>Imbers                   | Manufacture Drawing No                           |                  | CRN  | I                           | National<br>loard No. | Year<br>Built  |
|          | CYLINDER            |   | 1           | 6. (a) 1  |                                       | 7763-1                                  | 10-7763-1  |                  | •  |                             |                       | 2011           |
|          | • 17                |   | -           |   |                                       | Y.,                                     |  |                  | <b>-</b> .                                       |                             |                       |                |
| _        | -                   | <u> </u>                                | -           |   |                                       |   | •  |                  |  |                             |                       |                |
| 1        | ne design (as ind   | physical prop<br>licated on line<br>107 | 14, Rema    | ill parts meet to<br>arks), constructions<br>denda to | tion and workm                        | anship conform to                       | fications of the ASI<br>ASME Rules, Sec          | tion of ASME     | D PRESSUR<br>Boiler and Pr                       | RE VESSEL C<br>essure Vesse | CODE.<br>el Code      |                |
| _        |                     | ear)                                    |             |   | 200                                   |   | _ , and Code Cas                                 | es               |  | /hlib-a-a-l                 |                       |                |
| . (      | a) Drums:           | ···                                     |             |   | (Da                                   | ie)                                     |  | •                | e e e e e e e e e e e e e e e e e e e            | (Numbers)                   |                       |                |
|          | Inside              | Inside L                                | ength _     |   | Sh                                    | ell Plates                              |  | Tut              | esheets  |                             | Tube Hole<br>Efficien |                |
| No.      | Diameter,<br>in.    | ft.                                     | in.         |   | pec. No.,                             | Thickness,                              | Inside Radius,                                   | Thickness,       | Inside R   |                             | ongitu-               | Circum-        |
| 1        | 54"                 | 42'                                     | 4"          |   | ade<br>6 Gr70                         | in.<br>1 1/2"                           | in.<br>27"                                       | in               | in.  |                             | dinal                 | ferential<br>- |
| 2        | -                   |   |             |   |                                       | 1 1/2                                   | - 21   |                  | 1  |                             | -                     |                |
| 3        |                     | , -                                     |             |   | -                                     | -                                       | -  |                  | <del>                                     </del> |                             | -                     |                |
| 4        | -                   | -                                       |             |   | •                                     | -                                       |  |                  | 1  |                             | - 1                   |                |
|          |                     |   |             |   |                                       |   |  |                  |  |                             |                       |                |
|          | Longitud<br>Joint   |   |             | Circum.<br>Joints                                     |                                       | ¥ ,                                     |  | Heads            |  |                             | ,                     | Hydro-         |
| 0.       | No. &<br>Type*      | Effi-                                   | No.         |   |                                       | t'l. Spec. No.,                         |  | 7,               |  | Radius                      | Manholes              | static         |
|          | 4-2                 | ciency<br>100%                          | Tvr<br>3-:  |   | o%                                    | _Grade                                  | Thicknes:  | s, in.           | Type**   | of Dish                     | No. Size              | Test, psi.     |
|          | · -                 |   |             |   | -                                     |   | <del>                                     </del> |                  | th = Kr  |                             |                       |                |
|          |                     |   | -           |   | -                                     | -                                       | <del>                                     </del> |                  | -  | , <u>.</u> >                | _                     | -              |
|          |                     | -                                       |             |   |                                       | -                                       | -  |                  | -  | -                           |                       |                |
|          | ate if (1) Seamles  | s; (2) Fusion                           | welded.     |   |                                       |   |  | **Indicate       | if (1) Flat; (2)                                 | Dished; (3) E               | Ilipsoidal; (4        | ) Hemispheric  |
| _        | Boiler tubes:       |   |             | ·   | · · ·                                 | 1                                       | 6. (c) Headers i                                 |                  |  |                             |                       |                |
| <u> </u> |                     | nickness                                | Ma          | at'l. Spec. No.,                                      | Grade                                 | ,                                       | •  | (Box             | or sinuous or                                    | r round, Mat'l.             | spec. no.; Ti         | hickness)      |
| _        | -                   | -                                       |             |   | · · · · · · · · · · · · · · · · · · · |   | Heads or En                                      | <del></del>      | -  |                             | st, ps                |                |
| _        |                     |   |             | *   | <del></del>                           |   | (3   | Shape; Mat'l. sp | ec. no.; Thicl                                   | kness)                      |                       |                |
| _        | -                   |   |             | -   |                                       |   | 6 (d) Staybolts                                  |                  |  | -                           |                       |                |
| _        | _                   |   |             |   |                                       |   |  |                  |  | Diameter; Size              |                       |                |
| _        |                     | <u>·</u> 1                              |             |   |                                       | ,                                       | Pitch  |                  |  | in.                         | MAWP                  | p              |
|          |                     |   | *           |   |                                       |   | (Hor. a  | and Vert.)       | by c   | pported<br>one bolt)        |                       |                |
| e)       | Mud Drum:(Fo        | r sect, heade                           | r hoilers   | State size; Sha                                       |                                       | or Ends(Sh                              | ape, Mat'l. spec. ne                             | o · Thickness    | Hydro  | Test, ps                    |                       | <u> </u>       |
|          | •                   | Mat'l. sp                               | ec. no.; Ti |   |                                       | Heads or En                             |  |                  | 7/6\ \   | Vaterwall Tub               | 00                    |                |
| a) '     | Waterwall Heade     | re.                                     |             |   |                                       |   | Material   | Hydro.           | Diameter,  |                             |                       | /taterial      |
| a) '     | Waterwall Heade     |   | ial I       | Thickness   |                                       | I I UICKUBGG I                          |  | L FIVUIO.        |  | 1 111000103                 | v, ; n                | 100001101      |
| Ť        | Waterwall Heade     | rs:<br>Mater<br>Spec. I                 |             | Thickness,<br>in.                                     | Shape                                 | Thickness,<br>in.                       | Spec. No.  | Test, psi.       | in.  | in.                         |                       | ec. No.        |
| Ť        |                     | Mater                                   |             |   | Shape                                 |   |  |                  |  |                             |                       | ec. No.        |
| Ť        |                     | Mater<br>Spec.                          |             | in.   |                                       | in.                                     | Spec. No.  | Test psi.        | in.  |                             |                       |                |

| Maximum Allowable Formula on Which MAWP is Based Surface Sq. Ft. Surface Sq. Ft. Working Pressure Formula on Which MAWP is Based Sq. Ft. Sq. Ft. Working Pressure Formula on Which MAWP is Based Sq. Ft. Sq. F |                                |                            |   |   | FORM P-   | 4 (Back)                    | n oleh k<br>Nobel Sabia |                  |                 |                     |
|--|--------------------------------|----------------------------|---|---|---|-----------------------------|-------------------------|------------------|-----------------|---------------------|
| No.   Size and Shapes   Size No.   n.   Shapes   n.   Sizes No.   Test on   n.   n.   Sizes No.   n.     n.  | 8. (a) Econon                  | nizer Headers              |   |   | 1 1 1 1 1 1 1 1 1                                   |                             | ]                       | 8(               | b) Economizer   | Tubes               |
| 9. (a) Superheater Headers 9. (b) Superheater Tubes 9. (a) Superheater Headers 9. (b) Superheater Tubes 10. (a) Other Parts (1)  |                                | d Shape Spec.              |   |   |   |                             |                         |                  |                 | Spec. No.           |
| 9. (a) Superheater Headers 9 (b) Superheater Tubes 10 (c) Office Parts (1) (c) Office Parts ( |                                | -   -                      |   | - 1   |   |                             |                         |                  |                 |                     |
| 9. (b) Superheater Headers 9 (b) Superheater Tutes 9 (b) Superheater Tutes 9 (b) Superheater Tutes 10. (a) Other Parts (1)   |                                |                            | -   | <b>→</b> 433  |   |                             |                         |                  |                 |                     |
| 10. (a) Other Parts (1)  | نسبلت                          | -                          |   |   | •   |                             |                         | -                | -               |                     |
| 10. (a) Other Parts (1)  | 9. (a) Superhe                 | ater Headers               |   |   |   |                             |                         | . 9 (            | b) Superheater  | Tubes               |
| 10. (a) Other Parts (1) (2) (3) 10(p) Tubes for Other Parts  1. Openings (1) Steam (No., size, and type of nozzles or curilets)  1. Openings (1) Steam (No., size, and type of nozzles or curilets)  1. Openings (1) Steam (No., size, and type of nozzles or curilets)  1. Openings (1) Steam (No., size, and type of nozzles or curilets)  1. Openings (1) Steam (No., size, and type of nozzles or curilets)  1. Openings (1) Steam (No., size, and type of nozzles or curilets)  1. Openings (1) Steam (No., size, and type of nozzles or curilets)  1. Openings (1) Steam (No., size, and type of nozzles or curilets)  1. Openings (1) Steam (No., size, and type of nozzles or curilets)  1. Openings (1) Steam (No., size, and type of nozzles or curilets)  1. Openings (1) Steam (No., size, and type of nozzles or curilets)  1. Openings (1) Steam (No., size, and type of nozzles or curilets)  1. Openings (1) Steam (No., size, and type of nozzles or curilets)  1. Openings (1) Steam (No., size, and type of nozzles or curilets)  1. Openings (1) Steam (No., size, and type of nozzles or curilets)  1. Openings (1) Steam (No., size, and type of nozzles or curilets)  1. Openings (1) Steam (No., size, and type of nozzles or curilets)  1. Openings (1) Steam (No., size, and type of nozzles or curilets)  1. Openings (1) Steam (No., size, and type of nozzles or curilets)  1. Openings (1) Steam (No., size, and type of nozzles or curilets)  1. Openings (1) Steam (No., size, and type of nozzles or curilets)  1. Openings (No., size, and type of nozzles or curilets)  1. Openings (No., size, and type of nozzles or curilets)  1. Openings (No., size, and type of nozzles or curilets)  1. Openings (No., size, and type of nozzles or curilets)  1. Openings (No., size, and type of nozzles or curilets)  1. Openings (No., size, and type of nozzles or curilets)  1. Openings (No., size, and type of nozzles or curilets)  1. Openings (No., size, and type of nozzles or curilets)  1. Openings (No., size, and type of nozzles or curilets)  1. Openings (No., size, and type of |                                | •                          |   | -,  | •   | -                           | -                       | •                | 1. 1. S         | •                   |
| 1. Openings (1) Steam (No., size, and type of nozzles or outlets) (2) Safety Valve (No., size, and type of nozzles or outlets) (3) Blowoff (No., size, and type of nozzles or outlets) (4) Feed (No., size, ups and location of connections)  2. Maximum Allowable Formula on Which Working Pressure (No., size, and type of nozzles or outlets) (No., size, type and location of connections)  2. Maximum Allowable Formula on Which Working Pressure (No., size, type and location of connections)  3. Bodier (No., size, and type of nozzles or outlets) (No., size, type and location of connections)  4. Bearing surface (No., size, type and location of connections)  4. Bearing surface (No., size, type and location of connections)  5. Sp. Fl. (No., size, type and location of connections)  6. Bodier (No., size, and type of nozzles or outlets)  7. Bearing surface (No., size, type and location of connections)  8. Bearing surface (No., size, type and location of connections)  13. Fleid Hydro. Test ps (No., size, type and location of connections)  13. Fleid Hydro. Test ps (No., size, type and location of the safety of the treatment of the standard or construction of the safety of the standard or location of the safety valve in under or development of the safety valve in under or development or safety valve in under or safety valve in saf |                                | -                          |   | _   | •   |                             | •                       | •                | _               | •                   |
| 1. Openings (1) Steam (No., size, and type of nozzles or outlets) (2) Safety Valve (No., size, and type of nozzles or outlets) (3) Blowoff (No., size, and type of nozzles or outlets) (4) Feed (No., size, ups and location of connections)  2. Maximum Allowable Formula on Which Working Pressure (No., size, and type of nozzles or outlets) (No., size, type and location of connections)  2. Maximum Allowable Formula on Which Working Pressure (No., size, type and location of connections)  3. Bodier (No., size, and type of nozzles or outlets) (No., size, type and location of connections)  4. Bearing surface (No., size, type and location of connections)  4. Bearing surface (No., size, type and location of connections)  5. Sp. Fl. (No., size, type and location of connections)  6. Bodier (No., size, and type of nozzles or outlets)  7. Bearing surface (No., size, type and location of connections)  8. Bearing surface (No., size, type and location of connections)  13. Fleid Hydro. Test ps (No., size, type and location of connections)  13. Fleid Hydro. Test ps (No., size, type and location of the safety of the treatment of the standard or construction of the safety of the standard or location of the safety valve in under or development of the safety valve in under or development or safety valve in under or safety valve in saf | -   -                          | <u> </u>                   |   |   |   |                             | •                       | -                | -               |                     |
| 2  | 10. (a) Other P                | arts (1)                   |   | (2)   | <u> </u>  | (3)                         |                         |                  | 10(b) Tubes     | for Other Parts     |
| 1. Openings (1) Steam (No., size, and type of nozzles or outlets) (No., size, and size of outlets) (No., size, and type of nozzles or outlets) (No., size, and type of nozzles or outlets) (No., size, and type of nozzles or outlets) (No., size, | 1 -                            | -                          | -   | -   | T -   | -                           | - 1                     | -                | -               | -                   |
| 1. Openings (1) Steam (No., size, and type of nozzles or outlets) (No., size, type and location of connections)  Assignment and lowable (No., size, and type of nozzles or outlets) (No., size, type and location of connections)  Walking Pressure (No., size, and type of nozzles or outlets) (No., size, type and location of connections)  Note Inches (No., size, and type of nozzles or outlets) (No., size, type and location of connections)  Note Inches (No., size, and type of nozzles or outlets) (No., size, type and location of connections)  Note Inches (No., size, and type of nozzles or outlets) (No., size, type and location of connections)  Note Inches (No., size, and type of nozzles or outlets) (No., size, type and location of connections)  Note Inches (No., size, and type of nozzles or outlets) (No., size, type and location of connections)  Note Inches (No., size, and type of nozzles or outlets) (No., size, type and location of connections)  Note Inches (No., size, and type of nozzles or outlets) (No., size, type and location of connections)  Note Inches (No., size, and type of nozzles or outlets) (No., size, type and location of connections)  Note Inches (No., size, and type of nozzles or outlets)  Note Inches (No., size, and type of nozzles or outlets)  Note Inches (No., size, type and location of connections)  Note Inches (No., size, type and location of the saming or outlets)  Note Inches (No., size, type and location of connections)  Note Inches (No., size, type and location of sole on outlets)  Note Inches (No., size, type and location of sole on outlets)  Note Inches (No., size, type and location of sole on outlets)  Note Inches (No., size, type and location of sole outlets)  Note Inches (No., size, type and location of sole on outlets)  Note Inches (No., size, type and location of sole outl | 2 -                            | -                          | -   | -   | -   | • 10                        | - 1                     | -                | -               | •                   |
| (No., size, and type of nozzles or outlets)  (No., size, type and location of connections)  (No., size, type and location of surface and supposed by the state of durin heaf and supposed by the state of durin heaf and su | 3 -                            | -                          | -   | -   |   | -                           | -                       |                  |                 | •.                  |
| (No., size, and type of nozzles or cullets)  (No., size, type and location of connections)  (No., size, type and location of the sample of t | 1. Openings                    | (1) Steam                  |   |   |   | (2) Safety Valve            | <u> </u>                |                  |                 |                     |
| (3) Blowoff  (No., size, and type of nozzles or cutlets)  (No., size, type and location of connections)  2.  |                                |                            | (No., size, and                                       | type of nozzles or or                                 | utlets)   |                             |                         | (No., size, and  | type of nozzle  | s or outlets)       |
| (No., size, and type of nozzles or outlets)  2. Maximum Allowable Formula on Which Pressure Working Pressure MANVP is Based Test, psi Surface Sq. Ft.  3. Boiler Formula on Which Surface Sq. Ft.  3. Working Pressure MANVP is Based Test, psi Surface to be stamped to be  |                                | (3) Blowoff                |   | -   | ·   | (4) Feed                    |                         |                  | •               |                     |
| Maximum Allowable Formula on Which Morking Pressure  MAWP is Based Test, poi  Sq. FL  Working Pressure  MAWP is Based Test, poi  Sq. FL  Waterwall  Conomizer  Conomi |                                |                            | (No., size, and                                       | type of nozzles or o                                  | outlets)  |                             | (No.,                   | size, type and   | location of con | nections)           |
| Maximum Allowable Romula on Which Shop Hydro. Surface Sq. Ft.    Boiler   MAWP is Based Test, psi Sq. Ft.   Sq. Ft.  | 2.                             |                            | Code Par, and/  | or  | Heating   | •                           |                         | •                | ·               |                     |
| Solier   |                                |                            | Formula on Whi  | ch Shop Hydro.  |   | Heating surface             |                         |                  |                 |                     |
| Waterwall  | Roiler                         | Working Pressure           | MAWP is Base  |   |   | to be stamped on drum heads |                         |                  | Field Hydro     | o. Test ps          |
| Economizer    Superheater   Su |                                | -                          | -   |   |   | This heating sur-           |                         |                  |                 |                     |
| Superheater Other Parts A. Remarks: WAGNER PLATE WORKS, LLC RETAINS RESPONSIBILITY FOR WORKMANSHIP AND MATERIAL ONLY.  DESIGN IS THE RESPONSIBILITY OF THE CUSTOMER.  100% RT OF ALL SEAMS. COLD FORMED. HAS NOT BEEN P.W.H.T. WPS QUALIFIED AS WELDED AND WITH P.W.H.T. P.O. L160717 TAG: 172-04227-000 JOB: CP4143  HYDRO TEST BY CUSTOMER.  CERTIFICATE OF SHOP COMPLIANCE  We certify the statements made in this Manufacturers' Partial Data Report to be correct and that all details of design (as indicated on line 14, Remarks), material.  construction, and workmanship of this boiler part conform to Section 1 of the ASME BOILER AND PRESSURE VESSEL CODE.  Our Certificate of Authorization No. 32,395 to use the (PP) or (S) S Symbol expires 02/27 2013  Date 06/03/2011 Signed Name WAGNER PLATE WORKS, LLC (Authorized Representative)  CERTIFICATE OF SHOP INSPECTION  I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the State or Province o and employed by HSB CT  have inspected the part of a boiler described in this Manufacturers' Partial Data Report on 06/03 2011 and state that to the best of my knowledge and belief, the Manufacturer has constructed this part in accordance with the applicable sections of the ASME BOILER AND PRESSURE VESSEL CODE.  Pay signing this certificate neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss o any kind arising from or connected with this inspection.  |                                |                            | <del>-</del>  |   |   | used for deter-             |                         |                  | <b></b>         | -                   |
| A Remarks: WAGNER PLATE WORKS, LLC RETAINS RESPONSIBILITY FOR WORKMANSHIP AND MATERIAL ONLY.  DESIGN IS THE RESPONSIBILITY OF THE CUSTOMER.  100% RT OF ALL SEAMS.  COLD FORMED. HAS NOT BEEN P.W.H.T. WPS QUALIFIED AS WELDED AND WITH P.W.H.T.  P.O. L160717 TAG: 172-04227-000 JOB: CP4143  HYDRO TEST BY CUSTOMER.  CERTIFICATE OF SHOP COMPLIANCE  We certify the statements made in this Manufacturers' Partial Data Report to be correct and that all details of design (as indicated on line 14, Remarks), material construction, and workmanship of this boiler part conform to Section 1 of the ASME BOILER AND PRESSURE VESSEL CODE.  Our Certificate of Authorization No.  32,395 to use the (PP) or (S) S Symbol expires 02/27 2013  Date 06/03/2011 Signed  CERTIFICATE OF SHOP INSPECTION  I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the State or Province o OKLAHOMA and employed by HSB CT  have inspected the part of a boiler described in this Manufacturers' Partial Data Report on 06/03 2011 and state that to the best of my knowledge and belief, the Manufacturer has constructed this part in accordance with the applicable sections of the ASME BOILER AND PRESSURE VESSEL CODE.  Persessure VESSEL CODE.  By signing this certificate neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss o any kind arising from or connected with this inspection.  | Superheater                    | -                          | -   |   | <del></del>   |                             |                         |                  | -               | • ·                 |
| DESIGN IS THE RESPONSIBILITY OF THE CUSTOMER.  100% RT OF ALL SEAMS.  COLD FORMED. HAS NOT BEEN P.W.H.T. WPS QUALIFIED AS WELDED AND WITH P.W.H.T.  P.O. L160717 TAG: 172-04227-000 JOB: CP4143  HYDRO TEST BY CUSTOMER.  CERTIFICATE OF SHOP COMPLIANCE  We certify the statements made in this Manufacturers' Partial Data Report to be correct and that all details of design (as indicated on line 14, Remarks), material. construction, and workmanship of this boiler part conform to Section I of the ASME BOILER AND PRESSURE VESSEL CODE.  Our Certificate of Authorization No. 32,395 to use the (PP) or (S) S Symbol expires 02/27 2013  Date 06/03/2011 Signed Name WAGNER PLATE WORKS, LLC (Authorized Representative) (Manufacturer)  CERTIFICATE OF SHOP INSPECTION  If, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the State or Province o OKLAHOMA and employed by HSB CT  have inspected the part of a boiler described in this Manufacturers' Partial Data Report on 06/03 2011 and state that to the best of my knowledge and belief, the Manufacturer has constructed this part in accordance with the applicable sections of the ASME BOILER AND PRESSURE VESSEL CODE.  Day signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the part described in this Manufacturers' Partial 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 o any kind arising from or connected with this inspection.   | Other Parts                    | _                          |   | -   |   | capacity                    |                         |                  |                 |                     |
| CERTIFICATE OF SHOP COMPLIANCE  We certify the statements made in this Manufacturers' Partial Data Report to be correct and that all details of design (as indicated on line 14, Remarks), material. construction, and workmanship of this boiler part conform to Section I of the ASME BOILER AND PRESSURE VESSEL CODE.  Our Certificate of Authorization No. 32,395 to use the (PP) or (S) S Symbol expires 02/27 2013  Date 06/03/2011 Signed Name WAGNER PLATE WORKS, LLC (Authorized Representative)  CERTIFICATE OF SHOP INSPECTION  I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the State or Province o OKLAHOMA and employed by HSB CT  have inspected the part of a boiler described in this Manufacturers' Partial Data Report on 06/03 2011, and state that to the best of my knowledge and belief, the Manufacturer has constructed this part 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 part described in this Manufacturers Partial 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.   | P.O. L1607                     | RMED. HAS<br>17 TAG: 172-0 | 4227-000  |   | QUALIFIED AS  | WELDED AND WIT              | H P.W.H.T               | •                |                 |                     |
| (Authorized Representative)  CERTIFICATE OF SHOP INSPECTION  I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the State or Province o  OKLAHOMA  and employed by  HSB CT  have inspected the part of a boiler described in this Manufacturers' Partial Data Report on  the best of my knowledge and belief, the Manufacturer has constructed this part 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 part described in this Manufacturers Partial 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.  | We certify the construction, a | statements made in t       | his Manufacturers'<br>nis boiler part confo<br>32,395 | Partial Data Report in to Section I of the to use the | to be correct and<br>e ASME BOILER<br>e (PP) or (S) | that all details of design  | SEL CODE.               |                  |                 |                     |
| I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the State or Province o  OKLAHOMA and employed by HSB CT  have inspected the part of a boiler described in this Manufacturers' Partial Data Report on 06/03 , 2011 , and state that to the best of my knowledge and belief, the Manufacturer has constructed this part 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 part described in this Manufacturers Partial 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.  | Date06/0                       | 3/2011 Signe               |   | (Authorized Repress                                   | entative)   | Name <u>W</u>               | AGNER PL                |                  |                 |                     |
| OKLAHOMA and employed by HSB CT have inspected the part of a boiler described in this Manufacturers' Partial Data Report on 06/03 2011, and state that to the best of my knowledge and belief, the Manufacturer has constructed this part 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 part described in this Manufacturers Partial 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.   |                                | *                          |   |   | •   |                             | •                       |                  |                 | ٠                   |
| the best of my knowledge and belief, the Manufacturer has constructed this part 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 part described in this Manufacturers Partial 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  | l, the undersig                | _                          |   |   |   | Pressure Vessel Inspect     |                         |                  | e o             |                     |
| PRESSURE VESSEL CODE. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the part described in this Manufacturers Partial 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   | have inspected                 | the part of a boiler d     | escribed in this Ma                                   | nufacturers' Partial E                                | Data Report on                                      | 06                          | /03                     | · .              | 2011            | , and state that to |
| By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the part described in this Manufacturers  Partial 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  | he best of my                  | knowledge and belief       | the Manufacturer                                      | has constructed this                                  | part in accordar                                    | ice with the applicable s   | ections of the          | ASME BOILE       | R ANE           |                     |
| Partial 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  | PRESSURE V                     | ESSEL CODE.                |   |   |   | •                           |                         |                  |                 |                     |
| Date   | By signing this                | certificate neither the    | inspector nor his e                                   | mployer makes any                                     | warranty, expres                                    | ssed or implied, concern    | ing the part o          | described in thi | s Manufacture   | ŧ                   |
| Date   | Partial Data Re                | port. Furthermore, n       | either the inspector                                  | nor his employer sh                                   | nali be liable in ai                                | ny manner for any perso     | nal injury or           | property dama    | ge or a loss o  |                     |
| Date   |                                |                            |   |   | •   |                             |                         |                  |                 |                     |
| 77/N \   |                                | <b>A</b>                   | ν . ν   |   |   |                             |                         |                  |                 | ٠                   |
| Commissions OK 962 NB13413A  | Date                           | /                          | <u> </u>  |   |   |                             |                         | *                |                 |                     |
| V / \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\  |                                | [/]                        | X \ ( /a  |   | Con   | nmissions                   |                         | OK 962 N         | IR13413A        |                     |
| (Nat'l Board (Incl. endorsements) State, Province, and No.)  |                                |                            | rized Inspector                                       |   |   |                             |                         |                  |                 | e, and No.)         |

### FORM P-3 MANUFACTURER'S DATA REPORT FOR WATERTUBE BOILERS, SUPERHEATERS,

#### WATERWALLS, AND ECONOMIZERS

As Required by the Provisions of the ASME Code Rules, Section I

| 4143 | \$ |
|------|----|
|------|----|

|              |   |                     |                                   |                                     | MASTER<br>(Check o               |              |                   |                                    |                                     |                                 | :                  | <u> </u>            |
|--------------|---|---------------------|-----------------------------------|-------------------------------------|----------------------------------|--------------|-------------------|------------------------------------|-------------------------------------|---------------------------------|--------------------|---------------------|
| 1. Mar       | ufactured by                            |                     | Economaster                       | s, L.L.C.                           | 3209 W. 2                        | 1st St.      | Tul               | sa, Ok. 74107                      | 7                                   |                                 |                    |                     |
| 2. Mar       | ufactured for                           | Ec                  | o, Inc. 310                       | 1 N. Heml                           | ock Circle S                     | te. 110-F    | Broke             | s of manufacturer)<br>en Arrow, Ok | 74012                               |                                 |                    |                     |
| 3. Loca      | ation of install                        | lation _            | Mississip                         | oi Power C                          | o. Li                            | hertv. Mc    | 396               | ess of purchaser)<br>45            |                                     |                                 |                    |                     |
| 4. Unit      | identification                          | Eco                 | onomizer                          |                                     | ID Nos. 1                        | 1070         | (Name a           | and address)<br>J.                 |                                     | v. 1 1491                       |                    | 2012                |
|              |   | Wa                  | aterwall, econom                  | izer, etc.)                         |                                  |              |                   |                                    | (Drawing No.)                       |                                 | oard No.)          | (Year built)        |
| 5. The cons  | chemical and particular truction, and v | ohysical<br>vorkmar | properties of                     | all parts med<br>to Section I       | et the requirement of the ASME B | ents of mate | erial sp<br>PRESS | ecifications of the                | ne ASME BOILE<br>ODE                | R AND PRESSUI<br>20             | re vessel co<br>10 | DE. The desigr      |
|              | enda to                                 |                     |                                   |                                     |                                  |              |                   | Cases                              |                                     | ,(Y                             | ear)               |                     |
|              |   |                     | (D                                | ate)                                | 2                                |              |                   |                                    |                                     | (Numbers)<br>ched for the follo | owing items o      | f this report:      |
| Sup          | porting Manu                            |                     | rs Data nepo                      | rts properly                        | · identified and                 | i signed by  | Comi              | mssioned inspe                     | ectors are atta                     | cited for the foli              | ownig iteins o     | i this tehort.      |
|              |   |                     |                                   | (Na                                 | me of part, item nu              | ımber, manuf | acturer's         | name, and identify                 | ring stamp)                         |                                 |                    |                     |
|              |   |                     |                                   |                                     |                                  |              |                   |                                    |                                     | * * * *                         |                    |                     |
| —<br>6(a). D | rums                                    |                     |                                   |                                     |                                  |              | -                 |                                    |                                     |                                 |                    |                     |
| .,,, D       |   |                     |                                   |                                     |                                  | II Ďiza      |                   |                                    | 7.1                                 | ashaata                         |                    | le Ligament         |
|              | Inside                                  | 1                   |                                   | Material                            | Spec. No.,                       | ell Plates   | <u> </u>          |                                    | 100                                 | esheets                         | Longitu-           | iency, %<br>Circum- |
| No.          | Diameter                                | Insid               | e Length                          |                                     | ade                              | Thickne      | ss i              | nside Radius                       | Thickness                           | Inside Radius                   | dinal              | ferential           |
| 1 2          |   | $\vdash$            | <del></del>                       | ·                                   |                                  |              | +                 |                                    |                                     |                                 | <del></del>        | +                   |
| 3            | <u> </u>                                |                     |                                   |                                     |                                  |              |                   |                                    |                                     |                                 |                    |                     |
|              | Longitue                                |                     | Circ                              |                                     |                                  |              |                   | Head                               | de                                  |                                 |                    |                     |
| appy race .  | No. &                                   | Effi-               | No. &                             | nts<br>Effi-                        | Material Sp                      |              |                   |                                    |                                     | Radius                          | Manholes           | Hydro-<br>static    |
| No.          |   | ciency              | type                              | ciency                              | Grade                            |              |                   | Thickness                          | Type**                              | of Dish                         | No. Size           | Test                |
| 2            |   |                     |                                   |                                     |                                  |              |                   |                                    |                                     |                                 |                    |                     |
| 3            | if (1) Seamless;                        | (2) Eucic           | an welded                         | 1                                   |                                  |              |                   | **Indicate i                       | f (1) Flat: (2) Dish                | ed; (3) Ellipsoidal; (          | 4) Hemispherical   | •                   |
| 11-2-11-1    |   | , (2) rusic         | m weided.                         |                                     |                                  |              |                   | of the state of the                |                                     | ou, tor Emporadi, t             | 7 7 7 7 7 7        |                     |
| Diam         | oiler Tubes<br>eter Thic                | kness               | Material Sp                       | ec. No G                            | rade                             | 6(c). H      | eaders            | s No                               | (Boy or signou                      | s or round; Material            | enec no : Thickne  | nes!                |
|              |   |                     |                                   |                                     | $\neg$                           | H            | eads o            | or Ends                            |                                     | Hydro. 1                        |                    |                     |
|              |   |                     | £                                 | 1.                                  |                                  |              |                   |                                    | hape; Material<br>. no.; Thickness) |                                 |                    |                     |
| 15 1         | r                                       |                     |                                   |                                     |                                  | 6(d). S      | taybol            | ts                                 |                                     |                                 |                    |                     |
|              |   |                     |                                   | 1,                                  |                                  |              | Pitch             |                                    | (Material spec.                     | no.; Diameter; Size             |                    | WP                  |
|              |   |                     |                                   | <u> </u>                            |                                  |              |                   | forizonal and Vertic               |                                     | (Supported<br>by one bolt       | 1                  |                     |
| i(e). M      | lud Drum                                |                     |                                   |                                     |                                  |              |                   |                                    |                                     |                                 | Iro. test          |                     |
| 4.4          |   | (1                  | For sect. header l<br>Material sp | ooilers. State S<br>ec. no.; Thickn |                                  |              |                   | (Shape; Mat                        | erial spec. no.; Th                 |                                 |                    |                     |
|              | aterwall Hea                            | ders                |                                   |                                     |                                  | Heads o      | or End            | s .                                |                                     |                                 | wall Tubes         |                     |
|              | . 4                                     | and the second      | Material                          | 1350                                |                                  | T            |                   | Material                           | Hydro.                              | 25.5                            | 101                | Material            |
| No.          | Size and Si                             | hape                | Spec. No.                         | Thickne                             | ss Shape                         | Thick        | ness              | Spec. No.                          | Test                                | Diameter                        | Thickness          | Spec. No.           |
|              |   |                     |                                   |                                     |                                  |              |                   |                                    |                                     |                                 |                    |                     |
|              |   |                     |                                   |                                     |                                  |              |                   | <u> </u>                           |                                     | 8/h) Econ-                      | mizer Tubes        |                     |
|              | onomizer He                             |                     |                                   | T                                   |                                  | 1            |                   | 0.00                               |                                     | 1                               |                    |                     |
| 2            | 7.625" Rr                               | nd.                 | SA-106-B                          | .438"                               | Ellip.                           | .4.          | 38"               | SA234WPB                           |                                     | 2"                              | .105"              | SA-210-A1           |
| (A.)         |   |                     |                                   |                                     |                                  |              |                   |                                    |                                     |                                 |                    |                     |

ORIGINAL

July 2012

### FORM P-3 (Back)

11070

J-1348-1A Rev.1 1491 Boiler No. (Mfr's. Serial No.) (CRN) (Drawing No.) (Nat'l Board No.) 9(a). Superheater Headers Heads or Ends 9(b). Superheater Tubes Material Material Hydro. Material No. Size and Shape Spec. No. **Thickness** Shape **Thickness** Spec. No. Diameter Test Thickness Spec. No. 10(a). Other Parts (1) Vent (2) Drain (3) 10(b). Tubes for Other Parts TOL SA-105 3000# 3000# TOL SA-105 2 3 (1) 6" -600# RFWN 11. Openings (1) Steam \_ (2) Safety Valve (No., size, and type of nozzles or outlets) (A) Feed (1) 6" - 600# RFWN Inlet Hdr. (No., size, and type of nozzles or outlets) (No., size, type, and location of connections) Code Par. and/or Maximum Allowable Formula on Which Shop Hydro. Heating 13. Field Hydro. Heating surface to 12. Working Pressure MAWP Is Based Test Surface Test be stamped on Boiler drum heads. This heating surface Ь Waterwall not to be used for 24982 Economizer 565 PG-27 848 determining mini-Superheater mum safety valve capacity. Other Parts 14. Maximum Designed Steaming Capacity. \* w/8"x 6" sch.80 Conc. Reducer SA-234-WPB 15. Remarks SRV by others 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 Section I of the ASME BOILER AND PRESSURE VESSEL CODE. Symbol expires Sept. 25, 2013 Our Certificate of Authorization No. to use the (S) Economasters, LLC (Manufacturer) **CERTIFICATE OF SHOP INSPECTION** Boiler made by Economasters, LLC at 3209 W. 21st St. Tulsa, Ok. 74107 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 One Beacon America Ins Co. have inspected parts of this boiler referred to as data items 8a, 8b, 10a, 11, 12, 15 and have examined Supporting Manufacturer's Data Reports for items and state that, to the best of my knowledge and belief, the Manufacturer has constructed this boiler in accordance with Section I 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 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. CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE We certify that the field assembly of all parts of this boiler conforms with the requirements of Section I of the ASME BOILER AND PRESSURE VESSEL CODE. to use the (A) or (S) \_\_\_\_\_ Symbol expires Our Certificate of Authorization No.

(03/07)