



# TEXAS DEPARTMENT OF LICENSING AND REGULATION

Compliance Division/Boiler Program

P. O. Box 12157 • Austin, Texas 78711 • (512) 539-5716 • Fax (512) 539-5687

Email Address: [boilers@tdlr.texas.gov](mailto:boilers@tdlr.texas.gov)

Web site: [www.tdlr.texas.gov](http://www.tdlr.texas.gov)

**AIA Procedure 2**

**Rev 0**

**PAPER BOILER INSPECTION REPORTS 1<sup>st</sup> & SUBSEQUENT**

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**a. Purpose**

0. ***The purpose of this procedure is to describe the steps in completing the Boiler Equipment Report of Inspection, TDLR FORM 005BLR 12/13.***

**b. Scope**

1. ***This report may be used in the following situations:***
  - A. ***When conducting a first inspection of an object that has not previously been assigned a Texas Boiler number. It is no longer necessary to apply the TX decal (number) to the paper first inspection report.***
  - B. ***When conducting a subsequent inspection of an object that has previously been assigned a Texas Boiler number.***
  - C. ***When inactivating or reactivating a boiler.***
  - D. ***When moving an object from one location to another.***
  - E. ***When reporting, checking or clearing a violation.***
2. ***This procedure is a complete rewrite of previous versions.***

**c. Description**

1. ***All previous Forms used for reporting are obsolete. The BOILER EQUIPMENT REPORT OF INSPECTION will be the only one accepted for those authorized inspection agencies not reporting on Jurisdiction Online.***
2. ***Authorized inspection agencies reporting on JO must submit the web based electronic report. If the authorized inspection agency does not use JO for electronic reporting, use a black or blue ink to complete the form or complete the 'Adobe Reader' fillable inspection report.***
3. ***Complete all blanks as described in 4.1 below.***

**d. Inspection Report**



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1. **The information below describes how to complete each block. If there is no instruction after the block heading, the heading is considered self-explanatory.**

**(Refer to Exhibit 1)**

- A. **Texas Blr #**
- B. **1<sup>st</sup> inspection or subsequent inspection.**
- C. **Internal, external or non-certificate inspection.**
- D. **Status: active, disconnected in place, exempt, junked, disposition unknown.**
- E. **New or 2<sup>nd</sup> hand boiler.**
- F. **Identified by: Decal, stamp or metal tag.**
- G. **Variance - If a variance to any rule has been granted by the Chief Inspector, "Yes" will be entered in this space and a Certificate of Variance shall be posted on or near the boiler. If a variance is required or requested, refer to AIA Procedure 4. If no variance has been granted, check the "No" block.**
- H. **Texas Special - If a Texas Special status has been given to this boiler, "Yes" will be entered in this space. Verify the Texas SPCL stamping, and check the "Yes" block. If no Texas Special status, check the "No" block.**
- I. **Physical Address - Enter the name, address, contact information and specific boiler location. Note: Do not list post office boxes unless it is shown in conjunction with the actual location address and has the same zip code. Do not enter "same".**
- J. **Owner Address - Enter the owner's name, address, contact information and nature of business. Note: Do not enter "same". If an attention line is documented, do not put the person's name. Enter the position or department, i.e., maintenance supervisor, accounts payable, etc.**
- K. **Mailing Address - Enter the preferred name, address and contact**



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information for invoicing.

- L. **Manufacturer** - Enter the complete 'Certified by' manufacturer's name (not assembler) as shown on the ASME stamping or nameplate. Do not put trade or model names.
- M. **National Board Number** – Enter the National Board Number. If the boiler does not have a National Board number, enter "NONE" in the space provided. Cast iron/aluminum boilers do not require a National Board number. If the boiler was not exempt from National Board registration at the time of installation, complete the inspection and explain in the violations section of the report.
- N. **Serial Number** - Enter the manufacturer's serial number as shown on the ASME stamping or nameplate.
- O. **Manufacturer's Model Number** – Enter the manufacturer's model number.
- P. **Boiler MAWP** - as shown on ASME stamping or nameplate.
- Q. **Year Built** – Enter year built. If the year built data has deteriorated and is not legible, it may be estimated, enter "Est".
- R. **Inspection Interval** - Enter the applicable interval in months (12, 24 or 36). Alternatively, 'A', 'B' or 'T' may be used.
- S. **Boiler Type** - Enter the boiler type from the choices below or enter the complete nomenclature:
  - C - Cast iron/aluminum
  - CA - Cast Aluminum
  - CK- Steam Pressure Cooker
  - DC- Direct Contact
  - E - Electric
  - F - Fire Tube
  - FW- Fire/Water Tube
  - O - Other (must be fully explained in conditions section)
  - PG- Process Steam Generator
  - SJ - Steam Jacketed Kettle
  - U - Unfired
  - W - Water Tube



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T. **Boiler Use** - Enter the boiler use from the choices below or enter the complete nomenclature:

- H - Hot Water Heating (provisions for thermal expansion must be addressed)
- HT - High Temp Water Boiler
- PWH - Potable Water Heater
- P - Power
- PH - Portable Hot Water Heating
- PS - Portable Hot Water Supply
- PP - Portable Power
- R - Process
- S - Steam Heat
- W - Hot Water Supply (provisions for thermal expansion may be required)
- U - Unfired

U. **Heating Surface** (square feet) - The heating surface should only be indicated in square feet if available. Do not use kilowatts (kW) or horsepower (H.P.). To convert kW to heating surface, see Exhibit 2.

V. **Capacity** – Enter capacity in gallons for ‘HLW’ stamped potable water firetube heaters.

W. **Minimum SV/SRV Capacity (Section IV Only)** – Enter the stamped data for ASME Section IV boilers. If the data has deteriorated it may be left blank if the btu/hr input and/or output is available.

X. **Maximum Design Steam Capacity** – Enter the maximum design steam capacity in lbs/hr from either the Manufacturer’s Data Report or the name plate/Code stamping.

Y. **ASME Code Stamp** - This indicates the ASME Code stamp on the boiler. If the ASME Code stamping is not visible a violation shall be noted and the owner/user should be directed to submit an NB-136 Form to the Chief Inspector for permission to restamp. Enter the correct ASME Code stamp or stamps as shown on the boiler:

- A - Boiler Assembly (in conjunction with “S” stamp)
- E - Electric Boilers



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- H - Heating Boilers
- HLW - Water Heaters
- M - Miniature Boilers
- O - Other (Explain)
- S - Power Boilers
- U - Unfired Boilers
- U2 - Div. 2 Unfired Boilers
- U3 - Div. 3 Unfired Boilers

Z. Safety Valve Pressure - Enter the set pressure of the installed valve(s).  
If more than one valve is installed, enter the lowest and highest set pressure. Rules of the ASME construction code apply.

AA. Total Valve Capacity – Enter total valve capacity(ies) and mark the appropriate Btu/hr or Lbs/hr block.

BB. # of Safeties – Enter the total number of safety/ safety relief valves installed and check the appropriate btu/hr – lbs/hr block.

CC. Low Water Fuel Cutoff Type and MAWP – Enter the LWFC type and MAWP. Note: The low water fuel cutoff device(s) must be equal to or greater than the MAWP for the boiler. If type is other than probe, float & chamber or flow switch, describe in 'comments' section.

DD. Boiler Fuel - Enter the appropriate fuel from the choices below or enter the complete nomenclature:

(Note: If the boiler is fueled by more than one source, enter all fuel sources with the primary fuel first.)

- |                  |                      |
|------------------|----------------------|
| Alcohol          | LP/Diesel            |
| Bagasse          | Methane              |
| Black Liquor     | Natural Gas/Fuel Oil |
| Butane           | Natural Gas          |
| Coke             | Natural Gas/Methane  |
| Coal             | Natural Gas/Propane  |
| Electricity      | Natural Gas/Rec Heat |
| Fuel Oil         | Natural Gas/Wood     |
| Hydrogen Sulfide | Other (explain)      |
| Hydrogen         | Propane              |
| Kerosene         | Recovered            |



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Recovered Heat  
Recovered  
Heat/Natural Gas  
Solar  
Steam  
Sulfur

Solar/Electric  
Sewer Gas  
Solid Waste/Natural Gas  
Solid Waste-GRBG  
Wood

- FF. **Btu/hr Input** - Enter the Btu/hr input as shown on stamping or nameplate information. For electric boilers, convert kW to Btu/hr (Exhibit 2). This information is mandatory for all heating boilers.
- GG. **Btu/hr Output** - Enter the Btu/hr input as shown on stamping or nameplate information. For electric boilers, convert kW to Btu/hr (Exhibit 2). This information is mandatory for all heating boilers.
- HH. **Expansion Tank ASME** - as shown on ASME Code stamping or nameplate. Indicate the Code or non-Code status of the installed expansion tank. Note: Provisions for thermal expansion is mandatory for hot water heating boilers. For closed systems operating above 30 psig, ASME Code Section VIII, Division 1 construction and stamping is required. If the system is of the open type, clearly indicate in the conditions section of the report the provisions for thermal expansion. If this block is not applicable to the installation, check N/A.
- II. **Expansion Tank MAWP** - as shown on ASME Code stamping or nameplate. If the expansion tank is not constructed to the ASME Code, the system working pressure is limited to 30 PSIG.
- JJ. **External Piping ASME** - This is required for all Section I boilers and Section VIII, unfired boilers and process steam generators.
- LL. **Extension Inspection?** – Is boiler inspection being conducted as a result of an authorized extension request granted by the Chief Inspector? Yes or No
- MM. **Extension Approval Date** – Enter date of the Chief Inspector's approval letter to the owner/user.



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**OO. Comments - Give the overall condition of the boiler or any necessary pertinent information. Provide billing information such as bill owner, bill operator, bill other (explain).**

**PP. Item # - Law/Rule – Enter the line item number and the Texas Boiler Law/Rule reference. For example:**  
1. 65.600.a  
2. 65.608.b.1

**QQ. Violation – Enter violation description and required corrective action. Leave a copy of the report with the owner anytime a violation is documented. As an alternative, a copy of the report may be mailed or sent electronically.**

**Note: When clearing a violation, submit another non-certificate inspection report with the corrective action taken.**

**RR. Signature of Inspector**

**SS. Texas Commission Number**

**TT. Inspecting Organization - enter either inspection org. name or number**

**UU. Signature of Individual Present at Inspection – Mandatory for all hard copy inspection reports. Alternatively, the information may be typed.**

**VV. Date of inspection – Enter the physical inspection date (MM/DD/YY).**

**WW. Issue Certificate? - Mark yes or no**

**2 Provide the owner/user with the paper proof of inspection and include date, violations, Inspection fee, Commission Number and applicable fee using TDLR FORM 006BLR 12/07- Exhibit 1B.**

**3 Submit the completed inspection report to TDLR within 30 days of inspection.**

**4 Should you need additional information, contact TDLR at (512) 539-5716.**

Approved:



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A handwritten signature in blue ink, appearing to read "Rob D. Troutt".

**Rob D. Troutt , Chief Inspector**

**May 5, 2016**





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EXHIBIT 1B

THIS IS YOUR PROOF OF INSPECTION ONLY.

TEXAS BOILER # 1

THIS IS NOT A CERTIFICATE OF OPERATION.

INSPECTION DATE 64 VIOLATIONS NOTED? 65 YES NO INSPECTING ORGANIZATION 66 INSPECTOR NUMBER 67

AN INVOICE WILL FOLLOW FOR THE CERTIFICATE/INSPECTION FEE OF: \$70.00 (AIA INSP.) \$110.00 (STATE INSP.) \$140.00 (STATE INSP.) FEE IS INCURRED FOR EACH BOILER INSPECTED.

TDLR FORM 006BLR 12/07

EXHIBIT 2



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This formula should be used to convert kW to Sq. Ft. heating surface.

### Alternating Current

$$\text{Sq. Ft.} = \frac{\text{kW} \times 3413.0 \times 3.8}{33475}$$

This formula should be used to convert amperes/volts to kilowatts.

Direct Current	Alternating Current	
	Single Phase	Three Phase
$\frac{I \times E}{1000}$	$\frac{I \times E \times P.F.}{1000}$	$\frac{I \times E \times 1.73 \times P.F.}{1000}$

I = Amperes

E = Volts

P = Power Factor (Power Factor can be obtained from each city utility company. However, each city in Texas has a Power Factor over .95. Therefore, a Power Factor of .95 can always be used.)

To convert kW to Btu/hr:  $\text{kW} \times 3.5 \times 1,000 = \text{Btu/hr}$