



TEXAS DEPARTMENT OF LICENSING & REGULATION

Regulatory Program Management Division • PO Box 12157 • Austin, Texas 78711 • (512) 463-6599

www.tdlr.texas.gov

AIA Procedure 5

Rev0

Electronic First Boiler Inspection report

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a. Purpose

0. ***The purpose of this procedure is to describe the steps in completing the Jurisdiction Online (JO) Inspection Report.***

b. Scope

0. ***This report may be used in the following situations:***
 - A ***When conducting a first inspection of an object that has not been assigned a Texas Boiler number.***
2. ***This procedure is a complete rewrite of previous versions.***

c. Description

1. ***All previous methods of electronic reporting are obsolete. The electronically transmitted JO Inspection Report will be the only one accepted under this procedure.***
2. ***Authorized inspection agencies reporting on JO must submit the web based electronic report.***
3. ***Complete the report as described in 4.1 below.***

d. Description

1. ***First choose the location the boiler being inspected is located at or add a new location (Refer to Exhibit 1A – 1E for adding a new location). The information below describes how to complete each block. If there is no instruction after the block heading, the heading is considered self-explanatory. Fields with an asterisk (*) are required fields.***

(Refer to Exhibit 3A – 3C)

A. * Last Date of Site – Date of inspection

B. * Conditions Explained to - Name, title and phone number of person

C. * Texas Blr # in the section for the new boiler being inspected

a. *Inspection Type (internal or external, Cert or Non-Cert,)*



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- b. Condition OK?
- c. Cert Fees

D. Click the edit link

(Refer to Exhibit 3A for items 5 thru 47)

E. National Board Number –

F. Serial Number - Manufacturer's serial number as shown on the ASME stamping or nameplate.

G. * Manufacturer - Enter the complete 'Certified by' manufacturer's name (not assembler) as shown on the ASME stamping or nameplate. Do not enter trade or model names.

H. Manufacturer's Model Number – Enter the manufacturer's model number.

I. * Identified by: Decal, stamp or metal tag.

J. * Year Built – Enter year built.

K. * Specific Location in Plant

L. * Texas Special - If a Texas Special status has been granted, "Yes" enter "Yes" in this space. Verify the Texas SPCL stamping. If no Texas Special status, enter "No".

M. * Variance - If a variance to any rule has been granted by the Chief Inspector, "Yes" will be entered in this space and the 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.

N. * Type – Select from drop down menu.

- C - Cast iron/aluminum
- CA - Cast Aluminum
- CK - Steam Pressure Cooker
- DC - Direct Contact
- E - Electric
- F - Fire Tube
- FW - Fire/Water Tube



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- O - Other (must be fully explained in conditions section)**
- PG - Process Steam Generator**
- SJ - Steam Jacketed Kettle**
- U - Unfired**
- W - Water Tube**

O. * Use - Select from drop down menu.

- 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**

P. 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 4.

Q. Capacity – Enter capacity in gallons for potable water heaters.

R. * ASME Code Stamp - This indicates the ASME Code stamp on the boiler. If the ASME Code stamp is not visible and other Code required stamping information is present, the owner should be directed to contact TDLR/Austin for possible permission to restamp. Select from drop down menu.

- A - Boiler Assembly (in conjunction with “S” stamp)**
- E - Electric Boilers**
- H - Heating Boilers**
- HLW- Water Heaters**
- M - Miniature Boilers**
- N - None (Explain)**
- S - Power Boilers**
- U - Unfired Boilers**
- U2 - Div. 2 Unfired Boilers**
- U3 - Div. 3 Unfired Boilers**



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- S. * **SV Count** – Enter the total number of safety/safety relief valves.
- T. **Minimum SV/SRV Capacity (Section IV Only)** – Enter the stamped data for ASME Section IV boilers.
- U. **Min SV/SRV Capacity Required Type** - Select 'lb/hr' or 'btu/hr' from drop down menu.
- V. * **Boiler Fuel** - Select from drop down menu.

Alcohol	Natural Gas/Rec Heat
Bagasse	Natural Gas/Wood
Black Liquor	Other (explain)
Butane	Propane
Coke	Recovered
Coal	Recovered Heat
Electricity	Recovered
Fuel Oil	Heat/Natural Gas
Hydrogen Sulfide	Solar/Electric
Hydrogen	Sewer Gas
Kerosene	Solid Waste/Natural Gas
LP/Diesel	Solar
Methane	Steam
Natural Gas/Fuel Oil	Sulfur
Natural Gas	Solid Waste-GRBG
Natural Gas/Methane	Wood
Natural Gas/Propane	

- W. **Input Btu/Hr** – Enter the Btu/hr input as shown on stamping or nameplate information. For electric boilers, convert kW to Btu/hr (Exhibit 4). This information is mandatory for all heating boilers.
- X. **Output Btu/Hr** – Enter the Btu/hr input as shown on stamping or nameplate information. For electric boilers, convert kW to Btu/hr (Exhibit 4). This information is mandatory for all heating boilers.
- Y. **Minimum Steam Capacity** – Enter the maximum design steam capacity in lbs/hr from either the Manufacturer's Data Report or the name plate/Code stamping as applicable.
- Z. **Maximum Steam Capacity Type** - Select 'lb/hr' or 'btu/hr' from drop down menu.



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AA. External Piping ASME - This applies to Section I boilers and Section VIII, unfired boilers and process steam generators. Select from 'yes' or 'no' on the drop down menu.

BB. * Boiler MAWP - as shown on ASME stamping or nameplate.

CC. 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.

DD. * 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.

EE. Low Water Fuel Cutoff MAWP – Enter the LWFC MAWP. Note: The low water fuel cutoff device(s) must be equal to or greater than the MAWP for the boiler.

FF. Low Water Fuel Cutoff Type – Select the LWFC type MAWP from the drop down menu. If type is other than probe, float & chamber or flow switch, describe in 'other' or 'comments' section.

GG. Installed New? Yes or No

HH. * Certificate Duration (in months) – Enter the inspection interval in months.

II. * Certificate Expiration Date – Required only at JO roll out. Subsequent inspections will automatically populate based on the certificate duration entry in months.

JJ. * Issue Certificate - Select 'yes' or 'no' from drop down menu.

KK. * Date of inspection – Use calendar icon to select the inspection date.

LL. * First Inspection? - Select 'yes'.



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MM. * S/SR Valve Total Capacity - Enter total valve capacity of all S/SR Valves installed on the boiler (including super-heaters).

NN. * Set Pressure Highest – Enter highest safety/safety relief valve set pressure.

OO. * Set Pressure Lowest – Enter lowest safety/safety relief valve set pressure. If there is only one valve installed, enter the same information as ‘Set Pressure High’.

PP. SV Based on (Type) - Select ‘lb/hr’ or ‘btu/hr’ from drop down menu.

QQ. Inspection Comments – Document inspection general comments.

RR. Object Comments – Document inspection specific to the boiler. Provide billing information such as bill owner, bill operator, bill other (explain).

(Refer to Exhibit 3B)

SS. Violations – If a violation exists, click on “Add a violation” (Exhibit 3B) under the ‘Edit Boiler Tab’. In the pop up window select the appropriate category in the pull down menu then click ‘Next’. In the subsequent pop up window select a ‘Sub Category’ from the pull down menu and click ‘Next’ and verify the follow information: Date Found, Status, Type, and enter the ‘Date To Be Resolved By’.

Note: ‘Conditions’ and ‘Requirement’ will auto populate with preselected data. Verify this information is correct and add additional information as needed. If there are no more violations click ‘Submit’ in the bottom left corner of window. If there are additional violations select ‘Submit and Add another Violation’ from the pull down menu in the bottom center of window. Repeat as necessary.

When checking or clearing a violation, submit a ‘non-certificate external inspection report.’

- 2. Provide the owner/user with the paper proof of inspection and include Date, Violations, Inspection Organization, Commission Number and Applicable Fee using TDLR FORM 006BLR 12/07- Exhibit 3C.**
- 3. Submit the completed inspection report to TDLR within 30 days of inspection.**



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

Approved:

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

Rob D. Troutt . Chief Inspector

May 5, 2016

Exhibit 1A



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My Current Open Inspection - Internet Explorer

http://solutions.pses.com/LocationInspectionEnter_Z.asp?PopUp=true&btnCancelClose=true&intLinkID=0&intLocationID=271287&intReadOnly=false&objSelectedObjects=NA

JURISDICTION ONLINE Home | Help | Support | Logout
Monday, December 30, 2013

BPV | Location | Review | View | Accounting | Admin | Contact | Policy | My Offline Work | Reports
Work Planning | Open Inspections | Search Inspections | Search Objects | Move Objects | Object Mgmt | Reports

Location: [Candlewood Suites 4320 S Interstate 35 Austin, TX 78745-2823](#)

[Manage Object List](#)

Inspector: Trout, Rab [Change](#) Last Date on Site: Conditions Expired To:

Object	Last Inspect	OK	Inspection Type	Conditions OK?	Cert Fees	Other Fees	Other Fees	Other Fees
TX202396	12/14/2013	<input checked="" type="checkbox"/>	Not Inspected	LRK	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Type: Fire Tube Use: Hot Water Supply Heating Surface (sq ft): Unknown Capacity (gal): 100 MWHP: 100 Boiler - STATE INDUSTRIES - 060035 - 1998 - 2ND FLOOR BLR RM - State of Texas - Active								
TX202397	12/14/2013	<input checked="" type="checkbox"/>	Not Inspected	LRK	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Type: Fire Tube Use: Hot Water Supply Heating Surface (sq ft): Unknown Capacity (gal): 100 MWHP: 100 Boiler - STATE INDUSTRIES - 061276 - 1998 - 2ND FLOOR BLR RM - State of Texas - Active								
TX202399	02/13/2013	<input checked="" type="checkbox"/>	Not Inspected	LRK	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Type: Fire Tube Use: Hot Water Supply Heating Surface (sq ft): Unknown Capacity (gal): 100 MWHP: 100 Boiler - STATE INDUSTRIES - 061233 - 1998 - 2ND FLOOR BLR RM - State of Texas - Active								
TX222335	12/06/2012	<input checked="" type="checkbox"/>	Not Inspected	LRK	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Type: Fire Tube Use: Hot Water Supply Heating Surface (sq ft): Unknown Capacity (gal): 65 MWHP: 160 Boiler - RHEEM - 123997 - 2009 - 2ND FLOOR - State of Texas - Active								

By pressing the submit button, you certify that the data submitted is correct to the best of your knowledge. Submission constitutes your application of a digital signature as defined by the United States "Electronic Signatures in Global and National Commerce Act" for your State Number (1787).

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3a 3b 3c

User Name: Rab Trout
Employer: State of Texas

Example TX202399 is the boiler that
needs the inspection

Submit Cancel Preview Insp. Report What do you want to do...

100%



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BPV | [Location](#) | [Review](#) | [View](#) | [Admin](#) | [Contact](#) | [Policy](#) | [My Offline Work](#) | [Reports](#)

[Search Locations](#) | [Add Location](#)

[-] Search Criteria

Location Name only NOB/SIC only

Address 1 only

City only

Zip only

County only

FIPS Code only

Location # only

Order Results By Location Name Results per Page 100

[+] Search Results

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User Name: Tim Larrew
Employer: State of Texas

Thursday, January 02, 2014

Exhibit 1B

BPV | [Location](#) | [Review](#) | [View](#) | [Admin](#) | [Contact](#) | [Policy](#) | [Letter](#)

[Search Locations](#) | [Add Location](#) | [Match Locations](#)

Enter zip/postal code or select a country

Enter Zip/Postal Code: This option allows prefill of City, County, State, and Country based on Zip/Postal Code (US and Canada only)

or

Select State/Country TX USA

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User Name: Tim Larrew
Employer: State of Texas

Thursday, January 02, 2014

Exhibit 1C

BPV | [Location](#) | [Review](#) | [View](#) | [Admin](#) | [Contact](#) | [Policy](#) | [Letter](#)

[Search Locations](#) | [Add Location](#) | [Match Locations](#)

Enter zip/postal code or select a country

Enter Zip/Postal Code: This option allows prefill of City, County, State, and Country based on Zip/Postal Code (US and Canada only)

or

Select State/Country <Choose> USA

Exhibit 1D



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BPV | [Location](#) | [Review](#) | [View](#) | [Admin](#) | [Contact](#) | [Policy](#) | [Letter](#)
[Search Locations](#) | [Add Location](#) | [Match Locations](#)
Enter the Address of the Location you wish to create

		Example
Address 1 *	<input type="text" value="1010 Washington"/>	330 Marshall Street
Address 2	<input type="text"/>	Suite 800
City *	<input type="text" value="Phoenix"/>	Shreveport
County	<input type="text" value="Maricopa"/>	Caddo
FIPS	<input type="text" value="04013"/>	40015
Zip/Postal Code	<input type="text" value="85034"/>	71101
State *	<input type="text" value="AZ"/>	LA
Country *	<input type="text" value="USA"/>	USA
Latitude	<input type="text"/>	32.5051
Longitude	<input type="text"/>	-93.7448

Please Note - this is the physical location of the object(s)

[Previous](#) [Next](#)

Exhibit 1E

[Edit Location Information](#)

Location Name: Location Phone: - JO Location #: 2835511

Address: 1010 E Washington St, Phoenix, AZ, 85034-1008, USA

County: Maricopa FIPS: 04013 Lat: 0.000000 Long: 0.000000 Alt Location #: -

Location Name *	<input type="text"/>	JO Location Number	2835511
Address 1 *	<input type="text" value="1010 E Washington St"/>	Address 2	<input type="text"/>
City *	<input type="text" value="Phoenix"/>	State *	<input type="text" value="AZ"/>
Zip Code	<input type="text" value="85034-1008"/>	Country *	<input type="text" value="USA"/>
County	<input type="text" value="Maricopa"/>	FIPS	<input type="text" value="04013"/>
Latitude	<input type="text" value="0.000000"/>	Longitude	<input type="text" value="0.000000"/>
Location Phone	<input type="text"/>	Alt Location Number	<input type="text"/>

Nature of Business *

Mail To Contacts For State of Arizona

Primary [choose](#)

Invoice [choose](#)

Certificate [choose](#)

Owner [choose](#)

Exhibit 2



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Add Object

Enter the Jurisdiction Number of the object to add.

Jurisdiction Number

Example
TX123456

Must put TX in front of
number.

Submit

Cancel

Reset

Exhibit 3

Add Pressure Vessel				Support Help	
Objects Available to Copy					
copy	CA-LAP067247 PV Hanson	1999 7	11	225 125	Active
copy	CAA031602-92 PV Manchester	1989 7	13	0 200	Active
copy	CAA033006-06 PV Manchester	2002 7	13	660 137	Active
copy	CAA033008-06 PV Manchester	2003 7	13	200 200	Active
Pressure Vessel Details					
Jurisdiction Number *	<input type="text"/>	Status *	Active		
County Code *	Unknown	NB Number	<input type="text"/>		
Owner No.	<input type="text"/>	Other (Serial) No.	<input type="text"/>		
Specific Location in Plant *	<input type="text"/>	Year Built *	<input type="text"/>		
Use *	Unknown	Type *	Unknown		
Edit Manufacturer *					
Size (Length In.) *	<input type="text"/>	Size (Diam In.) *	<input type="text"/>		
MAWP *	<input type="text"/>	Volume (Gallons)	<input type="text"/>		
Min Head Thick(in) *	<input type="text"/>	Head Type *	Unknown		
Company Type *	Unknown	Min Shell Thick(in) *	<input type="text"/>		
Cert Exp Date *	7/16/2010	Certificate Duration (MO) *	<input type="text"/>		
Comments	<input type="text"/>				
System Number	**Auto Generated**		Send Copy of Report To	--Select a Jurisdiction--	
* Required Field					



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Exhibit 3A

Big Spring State Hospital 1901 N Us Highway 87 , Big Spring, TX, 79720-0283

[\[-\] Boiler Details](#)

Jurisdiction Number *	TX230896	Status *	Active	NB Number	241378	Serial No.	0510241378
Edit Manufacturer *	RAYPAK INC	MFGR Model #					
Identified By *	Unknown	Year Built *	2005	Specific Location in Plant *	BLDG 505 OUTSIDE		
Texas Special *	?	Variance *	No	Type *	Water Tube	Use *	Hot Water Heating
Htg Surface (Sq. Ft.)	39	Capacity (gallons)		ASME Code Stamp *	Unknown	SV Count *	
Min SV Cap Required		Min SV Cap Required Type	Unknown				
Fuel *	Natural Gas	Input BTU/HR	390000	Output BTU/HR		Max Steam Capacity	
Max Steam Capacity Type	Unknown	External Pipe ASME	No	Boiler MAWP *	160		
Expansion Tank MAWP	125	Expansion Tank ASME *	Unknown	LWCO MAWP	160		
LWCO Type	Flow Switch	Installed New?	No	Certificate Duration (MO) *	24	2nd Hand?	?
Cert Exp Date *	12/13/2013						
* Required Field							

[\[-\] Inspection Details](#)

Current Certificate Expires: 12/13/2013

Issue Cert. *	Ye	Inspection Date *	11/13/2013	First Inspection? *	?	S/SR Valve Total Capacity *	
Set Pressure Highest *		Set Pressure Lowest *		SV Based On (Type)	Unknown		
Extension Inspection ? *	?	Extension Approval Date					
* Required Field							
* Required Field							

[\[-\] Object/Inspection Comments](#)

Inspection Comments

SV discharge

Object Comments [Click here to change Object Comments](#)

Pipe SV to a safe point of discharge



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Exhibit 3B

Exhibit 3C

THIS IS YOUR PROOF OF INSPECTION ONLY.

TEXAS
BOILER #
3

THIS IS NOT A CERTIFICATE OF OPERATION.

INSPECTION
DATE

38

VIOLATIONS
NOTED? 4.2

☐ YES ☐ NO

INSPECTING
ORGANIZATION

4.2

INSPECTOR
NUMBER

4.2

AN INVOICE WILL FOLLOW FOR THE CERTIFICATE/INSPECTION FEE OF:
☐ \$70.00 (AIA INSP.) ☐ \$110.00 (STATE INSP.) ☐ \$140.00 (STATE INSP.) 4.2
 FEE IS INCURRED FOR EACH BOILER INSPECTED.



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Exhibit 4

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
$\frac{I \times E}{1000}$	$\frac{I \times E \times \text{P.F.}}{1000}$	$\frac{I \times E \times 1.73 \times \text{P.F.}}{1000}$

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