



# TUNE-UP INFORMATION DOCUMENTATION

## AREA SOURCE BOILER RULE



Air Resources Division/Permitting & Environmental Health Bureau  
40 CFR Part 63 Subpart JJJJJ

Please complete this form after each required boiler tune-up<sup>1</sup>. Depending on the boiler, the tune-up requirement may be biennially or every 5-years. Please consult the regulation for clarification or contact NHDES at the phone number below. The completed form should be maintained on site and submitted to USEPA and NHDES upon request.<sup>2</sup>

I. FACILITY INFORMATION			
FACILITY NAME:		AFS #:	
FACILITY ADDRESS:			
TOWN/CITY:		STATE:	ZIP:
II. RECORD OF GENERAL BOILER INFORMATION			
DATE OF TUNE-UP:		REPORTING PERIOD:	
BOILER OPERATOR:		BOILER EMISSION UNIT ID <sup>3</sup> :	
TUNE-UP CONDUCTED BY: (Please print)			
III. RECORD OF TUNE-UP PROCEDURES - Check the applicable box when the procedure is completed. If the procedure does not apply to you, indicate 'not applicable' or 'NA' in the comments column.			
	Requirement	Description	Inspector Comments/ Corrective Actions Taken
<input type="checkbox"/>	Inspect the burner <sup>4</sup>	Clean or replace any components of the burner, as necessary	
<input type="checkbox"/>	Inspect the flame pattern	Adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available.	
<input type="checkbox"/>	Inspect air-to-fuel ratio control system <sup>4</sup>	Ensure system is calibrated and functioning properly, if such a system is installed on the boiler	

<sup>1</sup> You may use this form to meet the requirements for completing and documenting a tune-up under the National Emission Standards for Hazardous Air Pollutants for Area Sources: Industrial, Commercial, and Institutional Boilers. However, you may also record the information in another form or format.

<sup>2</sup> This form can be used in conjunction with the Compliance Certification Report to document compliance with the Area Source Boiler Rule boiler tune-up requirement. These forms are located at: <http://des.nh.gov/organization/divisions/air/boiler-rule/index.htm>.

<sup>3</sup> Use the boiler emission unit ID consistent with the ID provided in the Initial Notification Report.

<sup>4</sup> You may delay the burner and air-to-fuel ratio control system inspections until the next scheduled unit shutdown, but you must inspect each burner at least once every 36 months.

Requirement		Description			Inspector Comments/ Corrective Actions Taken
<input type="checkbox"/>	Optimize emissions of carbon monoxide (CO)	Optimize emissions consistent with the manufacturer's specifications, if available, and with any nitrogen oxide requirement to which the unit is subject.			
<input type="checkbox"/>	Measure CO and O <sub>2</sub> levels in exhaust, before and after tune-up <sup>5</sup>	<b>Parameter</b>	<b>Before</b>	<b>After</b>	
		Basis (wet or dry)			
		CO (ppmv)			
		O <sub>2</sub> (% by volume)			

**IV. RECORD OF MANUFACTURER SPECIFICATIONS** – If your boiler has manufacturer specifications for adjusting the flame patterns or optimizing total emissions of carbon monoxide, maintain a copy of these specifications in your records.

**V. RECORD OF FUEL TYPE**

Fuel Type <sup>6</sup>	Amount of fuel used or delivered for the 12 months <sup>7</sup> preceding the tune-up <sup>8</sup>						Units of measure <sup>9</sup>
	Delivery Date <i>Example: 5/20/2015</i>						
	Or Period of Consumption <i>Example: 5/20/2015 – 8/31/2015 or January, February</i>						

[Add rows to the table for additional fuels, as necessary.]



If you have more than one boiler that must conduct a tune-up, please repeat Sections II, III, IV, and V for each boiler. Otherwise, proceed to Section VI below. Keep Sections I through V in your records for 5 years. **You do not submit this information unless requested by your delegated authority.**

<sup>5</sup> Measurements may be made on either a dry or wet basis, as long as it is the same basis before and after the tune-up adjustments are made. CO concentration measurements must be made in units of parts per million by volume (ppmv). Oxygen (O<sub>2</sub>) concentration measurements must be made as percent by volume.

<sup>6</sup> Report all fuels used in each of the boilers subject to the standard (e.g., bituminous coal, #6 fuel oil, #2 fuel oil, natural gas, bark, lumber, etc.), but only if the unit was physically and legally capable of using more than one type of fuel during that period. See the definition of fuel type in §63.11237.

<sup>7</sup> For the first tune-up, this fuel consumption record begins on May 20, 2011, the effective date of the rule. Thus, the first tune-up record will not reflect an entire 12 months of consumption data.

<sup>8</sup> EPA recognizes that not all facilities have fuel metering capabilities. Records of fuel delivery (instead of fuel consumption) will also meet the rule requirements. Affected sources have discretion on the periods of fuel records maintained on-site. The records may be annual, monthly, or periodic, depending on fuel delivery frequencies.

<sup>9</sup> For example: gallons, tons, standard cubic feet (scf), etc.

VI. CERTIFICATIONS		
<input type="checkbox"/>	I am authorized to make this submission on behalf of the affected source or affected units for which this submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the information submitted in this document and all of its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.	
<input type="checkbox"/>	I certify that my facility has complied with the tune up requirement for boiler(s) per §63.11123 of 40 CFR part 63, subpart JJJJJ.	
VII. RESPONSIBLE OFFICIAL'S SIGNATURE		
PRINTED/TYPED NAME OF RESPONSIBLE OFFICIAL:		
TITLE:	PHONE NUMBER:	EMAIL ADDRESS:
SIGNATURE OF RESPONSIBLE OFFICIAL:		DATE:

**The required initial tune-up is due by:**

Existing Sources<sup>10</sup>: No later than March 21, 2014

New Sources<sup>11</sup>: No later than 25 months or 61 months after the initial startup of the new or reconstructed boiler

If the unit is not operating on the required date for a tune-up (because it is a seasonal boiler, or because it is down for maintenance, for example), the tune-up must be conducted within 30 days of startup.

**Subsequent tune-ups:**

Each subsequent (i.e., every 5-year) tune-up must be conducted no more than 61 months after the previous tune-up for the following boilers:

1. Boilers with oxygen trim systems that maintain an optimum air-to-fuel ratio;
2. Seasonal boilers;
3. Oil-fired boilers < 5 MMBtu/hr; and
4. Limited-use boilers.

Each subsequent (i.e., biennial) tune-up must be conducted no more than 25 months after the previous tune-up for all other boilers.

<sup>10</sup> A boiler is an *existing source* if you commenced construction or reconstruction of the affected source on or before June 4, 2010.

<sup>11</sup> A boiler is a *new source* if you commenced construction or reconstruction of the affected source after June 4, 2010.