



# BOILER EMISSIONS PROGRAM

Region 8 Sustainability & Environmental Management System

## 1.0 Purpose & Scope

The purpose of the GSA Boiler Emissions Program is to optimize boiler operation to reduce air pollution. The program will ensure compliance with Federal, State, local and GSA requirements.

## 2.0 Activities & Departments Affected

Contracting – responsible for issuing the O&M contract

Property Management – responsible for overseeing the O&M contractor

## 3.0 Exclusions

This environmental procedure pertains to the collection of boiler emissions and there are no exclusions.

## 4.0 Forms Used & Permits Required: (include reporting requirements)

### Federal and State Forms and Permits:

PERMIT / FORM / REPORT	SUBMITTED TO: FEDERAL OR STATE AGENCY	SUBMITTAL FREQUENCY
Colorado Air Pollution Emissions Notice (APEN) Form APCD-200	Colorado Dept. of Public Health and Environment, Air Pollution Control Division	Initial and every 5 years
[Colorado] Boiler/Pressure Vessel Installation Application	Colorado Department of Labor and Employment, Boiler Inspection Section	Initial
[Montana]	Montana Department of Environmental Quality, 50-74-103. [Federal boilers exempted from - inspections, inspection fees, and certificates]	Exempt from inspections
[North Dakota] Annual Emission Inventory Report Forms: Fuel Burning Equipment for Indirect Heating Permit Application ( <a href="#">SNF 8536</a> )	North Dakota Department of Health, Division of Air Quality, Asbestos Control Program	Reassess, reevaluate, reexamine
[South Dakota] Minor Operating Permit Application Form; Boiler, Turbine or Furnace Application Form	South Dakota Department of Environment and Natural Resources	Reassess, reevaluate, reexamine
[Utah] Fuel Burning Equipment (Boilers, Heater, Steam Generators) Form 19	Utah Department of Environmental Quality, Division of Air Quality	Reassess, reevaluate, reexamine
[Wyoming]	Wyoming Department of Environmental Quality, Air Quality Division Chapter 6, Section 2, Part (k)(iii)	Permit not required

### In-house GSA Region 8 and Contractor Forms: None



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### 5.0 Acronyms, Abbreviations, and Definitions

Acronyms	Meaning
APEN	Air Pollution Emissions Notification
CFC	Chlorofluorocarbons
CDPHE	Colorado Department of Public Health and Environment
COR	Contracting Officers Representative
EPA	Environmental Protection Agency
MM BTU	one million British Thermal Unit;
O&M	Operations and Maintenance
PM	Preventative Maintenance

### 6.0 Procedure

**State Specific Procedures & Requirements** [refer to individual State Legal Reviews for details on Statues, Laws, and Rules]:

State Boiler Section standard regulations on boilers are written to address construction, installation, operation, inspection, and repair. Boilers in Colorado are regulated, boilers under federal control in Montana (MCA 50-74-103), North Dakota (NDCC 26.1-22.1-06), South Dakota (SDCL 34-29A-14), and Utah (The State of Utah Boiler and Pressure Vessel Compliance Manual, 2006) are exempt from these regulations; Wyoming has no rules for boilers smaller than 10 M BTU/Hour.

**Note:** Most states have an air emissions section and usually those regulations do not usually exempt federally owned boilers from their regulations.

STATE	REQUIREMENTS / PROCEDURES
Colorado	CDPHE Air Pollution Control Division requires registration of boilers larger than 10 million BTUs /Hour; Colorado Department of Labor and Employment, Division of Oil and Public Safety conducts boiler inspections.
Montana	Regulated by the Montana Department of Labor & Industry through the <a href="#">Boiler Operator Program</a> . Hazardous wastes or wastes may not be burned in a boiler.
North Dakota	Boilers that are subject to federal inspection or under federal control are exempt under State laws or rules pertaining to boilers. Boiler Inspection is enforced through the Department of Insurance.
South Dakota	The South Dakota Department of Public Safety, Fire Marshal Office provides <a href="#">boiler safety and inspection training materials</a> . <a href="#">Air Quality Monitoring</a> and <a href="#">Permitting</a> is regulated by the South Dakota DENR Air Quality Division.
Utah	Utah Department of Environmental Quality, Division of Air Quality; Regulated by the Utah Labor Commission through the <a href="#">Boiler and Elevator Safety Division</a> .
Wyoming	Wyoming state government does not require most boilers to be permitted per Chapter 6, Section 2, Part (k)(iii)

Reference: the National Board of Boiler and Pressure Vessel Inspectors, [National Board Synopsis of Boiler and Pressure Vessel Laws, Rules, and Regulations, 2010](#).

#### Monitoring of emissions:



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STATE	REQUIREMENTS / PROCEDURES
Colorado	Any source that emits or has the potential to emit more than 100 tons of any regulated air pollutant per year, 10 tons per year of a hazardous air pollutant, or more than 25 tons per year of a combination of hazardous air pollutants, will be required to have an operating permit.
Montana	“... facility [constructed / installed after November 23, 1968] that has the potential to emit more than 25 tons per year of any airborne pollutant, other than lead, that is regulated ...” (MCA 17.8.743 (e))
Wyoming	<p>The Operating Permit Program currently affects only major sources of air pollution operating in the State. A major source is defined as a source which emits, or has the potential to emit, 100 tons per year of an air pollutant, or any source which emits, or has the potential to emit, 10 tons per year of an individual hazardous air pollutant (or 25 tons per year of any combination of hazardous air pollutants) which has been listed pursuant to section 112(b) of the Clean Air Act. A more precise definition can be found in Chapter 6, Section 3 of Wyoming Air Quality Standards and Regulations.</p> <p>Chapter 5, Section 2 of the Wyoming Air Quality Standards and Regulations adopted 40 CFR Part 60, Subpart Dc by reference. 40 CFR Part 60, Subpart Dc (Standards of Performance for small industrial-commercial-institutional steam generating units) establishes emission limits, capacity of 10 million to 100 million BTU/hour. 40 CFR Part 60, §60.42c(d) establishes SO<sub>2</sub> emissions limits for oil fired steam generating units and §§60.48c(d), 60.48c(e), 60.48c(f), 60.48c(g) , 60.48c(i), and 60.48c(j) establish the associated monitoring, record keeping and reporting requirements which apply to these boilers.</p>

No information provided for North Dakota, South Dakota, and Utah.

### Standardized Procedure:

- 6.1 When property/new boiler is acquired the Industrial Hygienist (IH) will review state boiler registration requirements. If necessary for a specific boiler and state, the Property Manager will register the boiler.
- 6.2 The Property Manager will develop a boiler maintenance and inspection guide outlining the maintenance and inspection plan and schedule for a given boiler. This must meet all State requirements. This guide may be a component of the Building Operations Plan. The Building Management Specialist will review this boiler maintenance guide.
- 6.3 As outlined in the boiler maintenance and inspection guide, the Property Manager will ensure a qualified Contractor schedules and performs flue gas analysis of the boiler, as well as coordinates an annual boiler inspection if required by the state. The Contractor will forward all resulting boiler inspection and flue gas analysis reports to the Contracting Officer’s Representative (COR).
- 6.4 The (COR) and the team managing the building will review and maintain a permanent record of all inspection reports, flue gas analysis reports, and reports of



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any boiler discrepancies or problems. The COR will make recommendations as needed.

- 6.5 The Fire Protection Engineer will review all boiler reports during the Management Analysis Review System (MARS).
- 6.6 The COR will perform any needed minor repairs themselves, or submit a work order to the help desk for tracking and corrective action for more substantial required repairs.
- 6.7 All involved parties will comply with all applicable codes, standards and regulations; local, state and federal.

## **7.0 Records Management**

Flue gas analysis reports  
Boiler inspection certifications

## **8.0 References**

National Board Synopsis of Boiler and Pressure Vessel Laws, Rules and Regulations, NB-370, April 1, 2010

Colorado:

Colorado Department of Labor and Employment, Division of Oil and Public Safety, Boiler Inspection Section, Boiler and Pressure Vessel Rule - 7 CCR 1101-5.

Colorado Department of Public Health and Environment, Air Pollution Emissions Notice (APEN) guideline for stationary devices. Regulation 3, Part A,11,C,1.

Montana:

Montana Department of Labor & Industry

South Dakota:

South Dakota Department of Environmental & Natural Resources Article 74.36

Utah:

Utah Department of Environmental Quality Division of Air Quality; New Source Review Section, Form 19, Natural Gas Boiler and Liquid Heater, August 31, 2006

The State of Utah Boiler and Pressure Vessel Compliance Manual, 2006

Wyoming:

Wyoming Air Quality Standards and Regulations, Chapter 5 - National Emission Standards (5/7/2008)



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### 9.0 Appendices

Attachment A: GSA Region 8 SEMS Boiler Regulations Flowchart

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Boiler Emissions "Month-Date-Year".doc	RJM July 5, 2012

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03/16/2006	Original	Harvey Wong
06/19/2009	Add ISO 14001 Document Control, outline Region 8 requirements and Flowchart	Robert Melvin, Harvey Wong
02/19/2010	Update to address EO 13514, add Flowchart (by Erik Petrovskis), add state section	Robert Melvin
03/23/2010	Updated procedure	Tom Record
05/21/2010	Add References, clause 6.9	Robert Melvin
06/08/2012	Emphasize Roles and Responsibilities in section 6, update flowchart	Tom Record, Nick Gutschow



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ATTACHMENT A: GSA Region 8 SEMS Boiler Regulations Flowchart

