

TABLE OF CONTENTS

| | | |
|------------|---|------------|
| 1.0 | PROJECT AND EMISSIONS OVERVIEW..... | 1-1 |
| 1.1 | PROJECT DESCRIPTION..... | 1-1 |
| 1.2 | AIR EMISSION LICENSING REQUIREMENTS..... | 1-1 |
| 1.3 | AMBIENT AIR QUALITY CONSIDERATIONS..... | 1-1 |
| 1.4 | FEDERAL AIR EMISSION STANDARDS..... | 1-2 |
| 2.0 | CHAPTER 115 APPLICATION FORM..... | 2-1 |
| 3.0 | BEST AVAILABLE CONTROL TECHNOLOGY ANALYSIS | 3-1 |
| 3.1 | BACT DETERMINATION FOR CO, PM, AND VOC | 3-1 |
| 3.2 | BACT DETERMINATION FOR NOX | 3-1 |
| 3.3 | BACT DETERMINATION FOR SO ₂ | 3-2 |

TABLES:

| | | |
|---------|--|-----|
| TABLE 1 | POTENTIAL EMISSIONS COMPARISON | 1-1 |
| TABLE 2 | COMPARISON OF POTENTIAL EMISSIONS TO DISPERSION MODELING THRESHOLDS | 1-2 |
| TABLE 3 | BACT EMISSION RATES OF CO, PM, AND VOC FROM BOILER..... | 3-1 |

APPENDICES:

| | |
|------------|--|
| APPENDIX A | POTENTIAL EMISSIONS CALCULATIONS |
| APPENDIX B | PUBLIC NOTICE OF INTENT TO FILE, LETTER TO THE CITY OF SOUTH PORTLAND |

Chapter 115 Air License Application

PREPARED FOR: SPRAGUE OPERATING RESOURCES LLC
59 MAIN STREET
SOUTH PORTLAND, ME 04106

ROLF WESTPHAL, TERMINAL MANAGER
(207) 799-4899
RWESTPHAL@SPRAGUEENERGY.COM

PREPARED BY: TOM ROLFSON
(207) 869-1418
tom.rolfson@powereng.com

1.0 PROJECT AND EMISSIONS OVERVIEW

1.1 Project Description

Sprague Operating Resources LLC (Sprague) operates a petroleum storage and distribution terminal at 59 Main Street in South Portland, Maine. Following an unforeseen failure Sprague has recently replaced Boiler #5 with a similar new boiler. Both the failed boiler and the new boiler have identical heat input capacities of 2.0 million British thermal units per hour (MMBtu/hr) and fire on distillate fuel oil.

1.2 Air Emission Licensing Requirements

The installation of the new boiler requires an amendment to Sprague's existing Chapter 115 air emission license #A-179-71-P-R/M. The maximum potential annual emissions from the new boiler have been quantified and compared to the "Significant Emissions" thresholds listed in Chapter 100 of the Maine Department of Environmental Protection's (MEDEP) regulations to determine whether the project is classified as a "minor modification" for air licensing purposes. Please refer to Appendix A for documentation of the emission calculations. The comparison of the project's maximum potential emissions to the Significant Emissions thresholds is presented in the following table and indicates that the project's emissions will be less than the corresponding thresholds. Therefore, Sprague's project represents a minor modification.

TABLE 1 POTENTIAL EMISSIONS COMPARISON

| POLLUTANT | POTENTIAL EMISSIONS FROM NEW BOILER (TONS/YEAR) | CHAPTER 100 SIGNIFICANT EMISSIONS THRESHOLD (TONS/YEAR) |
|--|---|---|
| CO | 0.32 | 100 |
| NO _x | 1.28 | 100 |
| PM/PM ₁₀ /PM _{2.5} | 0.13 | 100 |
| SO ₂ | 0.014 | 100 |
| VOC | 0.022 | 50 |

1.3 Ambient Air Quality Considerations

The potential emissions from the new boiler have also been compared to the dispersion modeling thresholds listed in Section 7 of Chapter 115 to determine whether dispersion modeling is required as part of the air emission license application. The comparison is shown in the following table and indicates that the quantity of emissions does not warrant an air dispersion modeling assessment.

TABLE 2 COMPARISON OF POTENTIAL EMISSIONS TO DISPERSION MODELING THRESHOLDS

| POLLUTANT | POTENTIAL EMISSIONS FROM NEW BOILER (TONS/YEAR) | CHAPTER 115 DISPERSION MODELING THRESHOLD (TONS/YEAR) |
|-------------------|--|--|
| CO | 0.32 | 250 |
| NOx | 1.28 | 50 |
| PM ₁₀ | 0.13 | 25 |
| PM _{2.5} | 0.13 | 15 |
| SO ₂ | 0.014 | 50 |

1.4 Federal Air Emission Standards

The boiler is not subject to the U.S. Environmental Protection Agency's (EPA) New Source Performance Standards (NSPS) rules contained in 40 CFR Part 60, Subpart Dc, and entitled *Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units*, as the boiler at 2.0 MMBtu/hr is well below the heat input applicability threshold of 10 MMBtu per hour.

The boiler is subject to EPA's NESHAP rules contained in 40 CFR Part 63, Subpart JJJJJ, *NESHAP for Industrial, Commercial, and Institutional Boilers Area Sources*. The boiler is considered a "new" boiler under this rule, as the construction of the boilers was not commenced on or before June 4, 2010. This rule requires Sprague to implement certain work practice standards and management practices, with a specific requirement to conduct a tune-up of the boiler every five years.

2.0 CHAPTER 115 APPLICATION FORM



| | |
|--------------------|----------|
| Form No. | A-L-0006 |
| Effective Date | 12/2005 |
| Revision No. | 09 |
| Last Revision Date | 10/23/14 |
| Page 1 of 13 | |

CHAPTER 115 AIR EMISSION LICENSE APPLICATION FORM

State of Maine
Department of Environmental Protection
Bureau of Air Quality
17 State House Station
Augusta, Maine 04333-0017
Phone: (207) 287-2437 Fax: (207) 287-7641

Section A: FACILITY INFORMATION

Owner or Operator (*Legal name as registered with the Secretary of State*):

Sprague Operating Resources LLC

Facility Site Name: Sprague South Portland Terminal

Facility Site Address (*Physical, no post office boxes*): 59 Main Street

City/Town: South Portland Zip Code: 04106 County: Cumberland

Facility Description: Bulk petroleum storage and distribution facility

Application Description:

Sprague Operating Resources LLC is filing for a Chapter 115 Air License Amendment for the replacement of Boiler #5 with a new 2.0 MMBtu/hr boiler.

Current License #: A- 179 - 71 - P - R/M

Check When Done:

All Sources

| | |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> | Application Completed |
| <input checked="" type="checkbox"/> | Copy Sent to Town (date sent: 11/12/2019) |
| <input checked="" type="checkbox"/> | Public Notice Published paper name & date: Portland Press, 11/12/2019 |
| <input checked="" type="checkbox"/> | Enclosed Public Notice Tear Sheet |
| <input checked="" type="checkbox"/> | Signed Signatory Form (Section J) |

Additional Requirements for New Sources

| | |
|--------------------------|--|
| <input type="checkbox"/> | Schedule for construction or installation of equipment |
| <input type="checkbox"/> | Title, Right, or Interest (e.g. copy of deed or lease) |
| <input type="checkbox"/> | Check for Fee |

Additional Requirements for New Major Sources and Major Modifications

| | |
|--------------------------|----------------------------|
| <input type="checkbox"/> | Notify Abutting Landowners |
|--------------------------|----------------------------|

For Department Use

Application #: A- _____ - _____ - _____ - _____

App Track #: _____

Chapter 115 Air Emission License Application
State of Maine DEP - Bureau of Air Quality

Facility Contact:

Name: Rolf Westphal Title: Terminal Manager
Company: Sprague Operating Resources LLC
Mailing Address: 59 Main Street
City/Town: South Portland State: ME Zip Code: 04106
Phone: (207) 799-4899 Fax: _____
e-mail: RWestphal@spragueenergy.com

Application Contact:

Name: Tom Rolfson Title: Environmental Engineer
Company: POWER Engineers, Inc.
Mailing Address: 303 U.S. Route One
City/Town: Freeport State: ME Zip Code: 04032
Phone: (207) 869-1418 Fax: (207) 869-1299
e-mail: Tom.Rolfson@powereng.com

Billing Contact:

Name: Same as Facility Contact Title: _____
Company: _____
Mailing Address: _____
City/Town: _____ State: _____ Zip Code: _____
Phone: _____ Fax: _____
e-mail: _____

Chapter 115 Air Emission License Application
State of Maine DEP - Bureau of Air Quality

Control Equipment for Fuel Burning Equipment

If applicable, indicate the types of required/operated add-on pollution control equipment, including baghouses, cyclones/multiclones, SCR, SNCR, etc.

| Emission Unit | Type of Control | Pollutant Controlled | Control Efficiency |
|--------------------------------|------------------------------|-------------------------|--------------------------|
| <i>Boiler #1 (Example)</i> | <i>Cyclone (Example)</i> | <i>PM (Example)</i> | <i>90% (Example)</i> |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Monitors for Fuel Burning Equipment:

If applicable, indicate types of required/operated monitors, including Continuous Emission Monitors (CEM), Continuous Opacity Monitors (COM), parameter monitors for operational purposes, etc.

| Emission Unit | Type of Monitor | Data Measured |
|--------------------------------|--|-------------------------------------|
| <i>Boiler #1 (Example)</i> | <i>CEM (Example)</i> | <i>NO_x (Example)</i> |
| <i>Boiler #1 (Example)</i> | <i>Parameter – operational (Example)</i> | <i>Temperature (Example)</i> |
| | | |
| | | |
| | | |
| | | |
| | | |

Chapter 115 Air Emission License Application
State of Maine DEP - Bureau of Air Quality

Section C: INCINERATORS

| | Incinerator Unit 1 | Incinerator Unit 2 |
|--|---------------------------|---------------------------|
| Incinerator Type (medical waste, municipal, etc.) | | |
| Waste Type | | |
| Make (Shenandoah, Crawford, etc.) | | |
| Model Number | | |
| Date of Manufacture | | |
| Date of Installation | | |
| Number of Chambers | | |
| Max. Initial Charge | lb | lb |
| Max. Design Combustion Rate | lb/hr | lb/hr |
| Heat Recovery? (Yes or No) | | |
| Retention Time of Exhaust Gases | seconds | seconds |
| Automatic Feeder? (Yes or No) | | |
| Temperature Range Primary | to °F | to °F |
| Secondary | to °F | to °F |
| Auxiliary Burner - Primary Chamber max. rating (MMBtu/hr) | | |
| type of fuel used | | |
| Auxiliary Burner - Secondary Chamber max. rating (MMBtu/hr) | | |
| type of fuel used | | |
| Annual Waste Combusted for ____ (yr) | | |
| Pollution Control Equipment (if any) | | |
| Stack Number | | |
| Monitors (ie - temperature recorder) | | |

Chapter 115 Air Emission License Application
State of Maine DEP - Bureau of Air Quality

PROCESS EQUIPMENT (section D cont'd)

Chemical Usage

Note: Complete this section for any chemicals integral to your process, for example, a cementing process for outsoles, dyes, surface coating, printing, cleaning, etc. Attach additional pages or MSDS sheets as needed.

| Process | Chemical substance used in process | Actual Usage (gal or lb for yr ____) | Hazardous chemical(s) in substance | Percent VOC ¹ (%) | Percent HAP ² (%) | Total VOC emitted (lb/year) | Total HAP emitted (lb/year) |
|---------|------------------------------------|--------------------------------------|------------------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

¹ Volatile Organic Compounds

² Hazardous Air Pollutants

Describe method of record keeping (ie. monthly calculations from purchase records, flow monitors on solvent tanks, etc.)

Describe methods used to calculate VOC/HAP emitted (ie – test results, if control equipment was taken into account; if conditions exist where solvents remain in the substrate rather than complete volatilization, etc.)

Chapter 115 Air Emission License Application
State of Maine DEP - Bureau of Air Quality

Section E: STACK DATA

| Stack # | Height Above Ground (ft) | Inside Diameter (ft) | Exit Temperature °F | Exhaust Flow Rate (ft ³ /s) [indicate actual or standard] |
|---------|--------------------------|----------------------|---------------------|---|
| 5 | 36.0 | 1.0 | varies | varies |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Section F: ANNUAL FACILITY FUEL USE

Total Fuel Consumption by Month for: _____ (year)

Fuel type: #2 Fuel Oil

Fuel type: _____

Fuel type: _____

Avg % sulfur (oil) 0.0015
 Avg % moisture (wood) _____
 (circle one: gal, tons, scf)

Avg % sulfur (oil) _____
 Avg % moisture (wood) _____
 (circle one: gal, tons, scf)

Avg % sulfur (oil) _____
 Avg % moisture (wood) _____
 (circle one: gal, tons, scf)

January _____
 February _____
 March _____
 April _____
 May _____
 June _____
 July _____
 August _____
 September _____
 October _____
 November _____
 December _____

Total _____

Proposed Annual Limit 127,896 gal

Chapter 115 Air Emission License Application
State of Maine DEP - Bureau of Air Quality

Section G: LIQUID ORGANIC MATERIAL STORAGE

| | | | | | | |
|--|--|--|--|--|--|--|
| Tank # | | | | | | |
| Capacity (gallons) | | | | | | |
| Materials Stored | | | | | | |
| Reid Vapor Pressure (RVP) | | | | | | |
| Annual Throughput | | | | | | |
| Above or Below Ground? | | | | | | |
| Tank Type (floating or fixed, riveted or bolted, etc.) | | | | | | |
| Physical Description – year installed | | | | | | |
| Physical Description – color | | | | | | |
| Dimensions - height (ft) | | | | | | |
| Dimensions - Diameter (ft) | | | | | | |
| Construction Material | | | | | | |
| Control Device | | | | | | |

Section H: MISCELLANEOUS

Note: Use this section to describe any equipment, activities, or other air emission sources that did not fit in any of the above categories. Include descriptions of the associated emissions. Attach additional pages if necessary.

Chapter 115 Air Emission License Application
State of Maine DEP - Bureau of Air Quality

Section I: BPT/BACT AND OTHER ATTACHMENTS

BPT/BACT Analysis:

For a license renewal for existing equipment, the applicant is required to submit a Best Practical Treatment (BPT) analysis to the Department. A BPT analysis establishes what equipment or requirements are appropriate for control or reduction of emissions of regulated pollutants to the lowest possible level considering the existing state of technology, the effectiveness of available alternatives, and the economic feasibility.

For a new license or the addition of new equipment to an existing license, the applicant is required to submit a Best Available Control Technology (BACT) analysis. A BACT analysis is a top-down approach to selecting air emission controls. It is done on a case-by-case basis and develops emission limits based on the maximum degree of reduction for each pollutant emitted taking into account economic, environmental and energy impacts.

- I certify that, to the best of my knowledge, the control equipment, fuel limitations, and process constraints outlined in this application represent BPT / BACT for the equipment and processes listed.

OR

- I have attached a separate BPT / BACT analysis to this application.

Other Attachments:

Please list any other attachments included with this application.

Attachment A: Potential Emissions Calculations

Attachment B: Public Notice of Intent to File, Letter to the City of South Portland

Chapter 115 Air Emission License Application
State of Maine DEP - Bureau of Air Quality

Section J: APPLICABLE RULES

Please indicate any rules you believe may be applicable to your facility by checking the associated box.

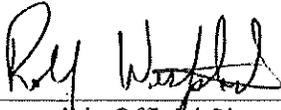
| Citation | Title |
|--|--|
| <input checked="" type="checkbox"/> 06-096 CMR 101 | Visible Emissions |
| <input checked="" type="checkbox"/> 06-096 CMR 103 | Fuel Burning Equipment Particulate Emission Standard |
| <input type="checkbox"/> 06-096 CMR 104 | Incinerator Particulate Emission Standard |
| <input type="checkbox"/> 06-096 CMR 105 | General Process Source particulate Emission Standard |
| <input type="checkbox"/> 06-096 CMR 106 | Low Sulfur Fuel Regulation |
| <input checked="" type="checkbox"/> 06-096 CMR 111 | Petroleum Liquid Storage Vapor Control |
| <input checked="" type="checkbox"/> 06-096 CMR 112 | Bulk Terminal Petroleum Liquid Transfer Requirements |
| <input type="checkbox"/> 06-096 CMR 117 | Source Surveillance |
| <input type="checkbox"/> 06-096 CMR 118 | Gasoline Dispensing Facilities Vapor Control |
| <input type="checkbox"/> 06-096 CMR 121 | Emission Limitations and Emission Testing of Resource Recovery Facilities |
| <input type="checkbox"/> 06-096 CMR 123 | Paper Coating Regulation |
| <input type="checkbox"/> 06-096 CMR 124 | Total Reduced Sulfur Control from Kraft Mills |
| <input type="checkbox"/> 06-096 CMR 125 | Perchloroethylene Dry Cleaner Regulation |
| <input type="checkbox"/> 06-096 CMR 126 | Capture Efficiency Test Procedures |
| <input type="checkbox"/> 06-096 CMR 129 | Surface Coating Facilities |
| <input type="checkbox"/> 06-096 CMR 130 | Solvent Degreasers |
| <input checked="" type="checkbox"/> 06-096 CMR 131 | Cutback Asphalt and Emulsified Asphalt |
| <input type="checkbox"/> 06-096 CMR 132 | Graphic Arts – Rotogravure and Flexography |
| <input type="checkbox"/> 06-096 CMR 133 | Petroleum Liquids Transfer Vapor Recovery at Bulk Gasoline Plants |
| <input type="checkbox"/> 06-096 CMR 134 | Reasonably Available Control Technology for Facilities That Emit Volatile Organic Compounds |
| <input checked="" type="checkbox"/> 06-096 CMR 137 | Emission Statements |
| <input type="checkbox"/> 06-096 CMR 138 | Reasonably Available Control Technology for Facilities That Emit Nitrogen Oxides |
| <input type="checkbox"/> 06-096 CMR 140 | Part 70 Air Emission License Regulations |
| <input type="checkbox"/> 06-096 CMR 145 | NOx Control Program |
| <input type="checkbox"/> 06-096 CMR 153 | Mobile Equipment Repair and Refinishing |
| <input type="checkbox"/> 06-096 CMR 159 | Control of Volatile Organic Compounds from Adhesives and Sealants |
| <input type="checkbox"/> 06-096 CMR 161 | Graphic Arts – Offset Lithography and Letterpress Printing |
| <input checked="" type="checkbox"/> 40 CFR Part 60 | New Source Performance Standards (NSPS) (please list Subpart(s): Kb) |
| <input checked="" type="checkbox"/> 40 CFR Part 63 | National Emission Standards for Hazardous Air Pollutants (NESHAP) (please list Subpart(s): BBBBBB, JJJJJJ) |
| <input type="checkbox"/> Other (list) | |
| <input type="checkbox"/> Other (list) | |

Chapter 115 Air Emission License Application
State of Maine DEP - Bureau of Air Quality

Section K: SIGNATORY REQUIREMENT

Each application submitted to the Department must include the following certification signed by a Responsible Official*:

"I certify under penalty of law that, based on information and belief formed after reasonable inquiry, I believe the information included in the attached document is true, complete, and accurate."



Responsible Official Signature

11/11/19

Date

ROLF WESTPHAL

Responsible Official (Printed or Typed)

TERMINAL MANAGER

Title

* A Responsible Official is defined by MEDEP Rule, Chapter 100 as:

- A. For a corporation: a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit and either:
 - (1) The facilities employ more than 250 persons or have gross annual sales or expenditures exceeding \$25 million (in second quarter 1980 dollars); or
 - (2) The delegation of authority to such representatives is approved in advance by the permitting authority;
- B. For a partnership or sole proprietorship: a general partner or the proprietor, respectively;
- C. For a municipality, State, Federal, or other public agency: Either a principal executive officer or ranking elected official. For the purposes of this part, a principal executive officer of a Federal agency includes the chief executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., a Regional Administrator of EPA).

3.0 BEST AVAILABLE CONTROL TECHNOLOGY ANALYSIS

Chapter 115 of the MEDEP regulations requires that a Best Available Control Technology (BACT) analysis be conducted for emission sources to be licensed. This BACT analysis addresses the five common combustion pollutants emitted by distillate oil fired boilers: carbon monoxide (CO), nitrogen oxides (NOx), particulate matter (PM), sulfur dioxide (SO₂), and volatile organic compounds (VOC). As required by Chapter 115, this BACT analysis has been conducted in a "top down" format.

3.1 BACT Determination for CO, PM, and VOC

Emissions of CO, PM, and VOC from distillate fuel oil-fired boilers are generally very low, and add-on emission control equipment is not economically practical. Sprague will meet BACT for these pollutants through the use of efficient burner combustion technology and by meeting the following emission rates for each boiler:

TABLE 3 BACT EMISSION RATES OF CO, PM, AND VOC FROM BOILER

| POLLUTANT | EMISSION FACTOR (LB/KGAL) | EMISSION RATE PER BOILER (LB/HOUR) |
|-----------|---------------------------|------------------------------------|
| CO | 5.0 | 0.073 |
| PM | 2.0 | 0.029 |
| VOC | 0.34 | 0.0050 |

3.2 BACT Determination for NOx

Identification and Evaluation of NOx Control Technologies

NOx control techniques are generally organized into two separate groups: combustion controls, and post-combustion controls. Combustion controls affect the combustion conditions to minimize the formation of NOx, while post-combustion controls remove NOx after it has formed. The combustion of distillate fuel oil in a commercial boiler produces NOx primarily due to the reaction of oxygen and nitrogen present in the combustion air, producing what is known as "thermal" NOx. Distillate fuel oil contains very little fuel-bound nitrogen, therefore the oxidation of fuel nitrogen to form "fuel" NOx is negligible.

Post-combustion Control Technologies

Post-combustion control techniques such as Selective Catalytic Reduction (SCR) and Selective Non-catalytic Reduction (SNCR) have been employed on utility boilers and large industrial water-tube boilers for NOx control. Packaged fire-tube boilers lack the furnace space and residence time necessary for effective SNCR operation, and therefore SNCR is not technically feasible for the proposed boiler. SCR has been utilized on much larger gas-fired fire-tube boilers on a very limited basis, primarily in the State of California, to meet Lowest Achievable Emission Rate (LAER) requirements. The maximum potential annual NOx emissions from Sprague's boiler are only 1.28 tons per year, with actual emissions expected to be lower. Therefore, the resulting cost-effectiveness value for SCR (expressed in dollars spent per ton of pollutant reduced) would be well above what is currently considered acceptable for minor source

BACT determinations in Maine. SCR does not represent BACT for controlling NOx emissions from Sprague's boiler.

Combustion Controls

Combustion control techniques have been demonstrated as successful in achieving NOx reductions from commercial boilers in a cost-effective manner. The combustion control methods available to control thermal NOx on commercial boilers consist of low NOx burners and flue gas recirculation (FGR).

Low NOx Burners

The term "low NOx burner" generally refers to a set of burner components (e.g., burner register, atomizing nozzle, diffuser) that are designed to achieve lower NOx by mixing the fuel and combustion air in a way that limits NOx formation. This is generally done by mixing the combustion air and fuel in multiple stages, and by utilizing a specially designed nozzle and/or diffuser to achieve a particular flame pattern.

Flue Gas Recirculation

With FGR, a portion of the combustion gases are recirculated back into the combustion zone. The relatively cool flue gas absorbs heat released by the burner flame, thereby lowering peak flame temperatures and thermal NOx formation. With induced FGR, a portion of the combustion gas flowing out of the final pass of the boiler is pulled back through the front wall of the boiler by the draft created by the burner's combustion air fan. The flue gas then mixes with the combustion air supply and is delivered to the burner.

The maximum potential annual NOx emissions from the boiler are only 1.28 tons per year, with actual emissions expected to be considerably lower. Therefore, the resulting cost-effectiveness value for combustion control technology such as low NOx burners and FGR (expressed in dollars spent per ton of pollutant reduced) would be above what is currently considered acceptable for minor source BACT determinations in Maine. Low NOx burners and FGR do not represent BACT for controlling NOx emissions from Sprague's boiler.

Selection of BACT for NOx

Sprague will meet BACT for NOx emissions through the use of good operating and maintenance practices, and by meeting a NOx emission limit of 20.0 pounds per thousand gallons of fuel, which is equivalent to 0.29 pounds per hour.

3.3 BACT Determination for SO₂

Techniques available for limiting SO₂ emissions from oil-fired boilers include SO₂ scrubbing systems and the use of low sulfur fuel oil. For boilers of this size and fuel type, SO₂ scrubbing systems are not economically practical, as the uncontrolled SO₂ emission levels are already very low. Sprague will meet BACT for SO₂ by limiting the sulfur content to a maximum of 0.0015% by weight.

APPENDIX A POTENTIAL EMISSIONS CALCULATIONS

**Appendix A
Sprague Operating Resources LLC
Emission Calculations for New Boiler**

Boiler Manufacturer: Buderus
Boiler Model: GE515/12

Maximum #2 Fuel Oil Flow Rate: 14.6 gallons/hour
Heating Value for #2 Fuel Oil: 140,000 Btu/gallon
Maximum Heat Input Capacity: 2.0 MMBtu/hour

Maximum Potential Annual Fuel Use: 127,896 gallons/year
Maximum Potential Annual Heat Input: 17,905 MMBtu/year

| Pollutant | Emission Factor¹ (lb/kgal) | Maximum Emission Rate (lb/hr) | Maximum Potential Annual Emissions (tons/year) |
|------------------|--|--|---|
| CO | 5.0 | 0.073 | 0.32 |
| NOx | 20.0 | 0.29 | 1.28 |
| PM ₁₀ | 2.0 | 0.029 | 0.13 |
| SO ₂ | 142*%S | 0.0031 | 0.014 |
| VOC | 0.34 | 0.0050 | 0.022 |

¹Emission factors obtained from U.S. EPA's AP-42 Chapter 1, Table 1.3-3. Emission rate for SO₂ based on maximum sulfur content of 0.0015% by weight.

**APPENDIX B PUBLIC NOTICE OF INTENT TO FILE, LETTER TO
THE CITY OF SOUTH PORTLAND**

ew Investment Policy
 2) Approval of Invest-
 ment Policy Statement
 3) Adoption: Ch. 619,
 Foreign Credentialing
 and Skills Recognition
 Evolving Loan Program
 4) Adoption, Ch. 612 -
 Amendment 4, Maine
 Mental Education Loan
 and Loan Repayment
 Programs (5) Adoption,
 Ch. 610 - Amendment
 1, Rules for the Con-
 duct of the Educators
 of Maine Program (6)
 Maine of Credit Renewal-
 Commercial Loan Insur-
 ance Program, Bidde-
 rd Internet Corp. (7)
 Old and new business,
 or further information,
 contact Bruce Wagner,
 Chief Executive Officer,
 P.O. Box 949, Augusta,
 Maine, 04332-0949,
 207) 623-3263.

Public Notice

NOTICE OF PUBLIC SALE

Notice is hereby given that in accordance with the Consent Judgment of Foreclosure and Sale entered April 17, 2019 in the action entitled JPMorgan Chase Bank, National Association v. Adam M. Deveau, by the Maine District Court, located in Springvale, Maine, Docket No. RE-18-62, wherein the Court adjudged the foreclosure of a mortgage granted by Adam M. Deveau to Mortgage Electronic Registration Systems, Inc., as nominee for Meridian Mortgage dated January 15, 2010 and recorded in the York County Registry of Deeds in Book 15800, Page 753, the period of redemption having expired, a public sale of the property described in the mortgage will be conducted on

December 3, 2019 at 10:00 AM at Bendett & McHugh, P.C., 30 Danforth Street, Suite 104, Portland, Maine

The property is located at 5 Richardson Road, Limington, Maine, as described in said mortgage. The sale will be by public auction. All bidders for the property will be required to make a deposit of \$5,000.00 in certified or bank check at the time of the public sale made payable

Foreclosure and Sale entered June 28, 2019, in the action entitled 1900 Capital Trust II, By U.S. Bank Trust National Association, Not in its Individual Capacity but Solely as Certificate Trustee v. Donn E. Derochemont and Gina M. Derochemont et al., by the Maine District Court, Division of York, Docket No. RE-17-67, wherein the Court adjudged the foreclosure of a mortgage granted by Donn E. Derochemont and Gina M. Derochemont, mortgagors, to Mortgage Electronic Registration Systems, Inc., as Mortgagee, as nominee for SIB Mortgage Corp., its successors and/or assigns, dated February 6, 2004 and recorded in the York County Registry of Deeds in Book 13927 at Page 181, should the period of redemption have expired without redemption of the property by the mortgagors, a public sale of the property described in the mortgage will be conducted on

December 6, 2019 commencing at 10:30 AM at the Office of Brock & Scott, PLLC, 190 U.S. Route One, 2nd Floor-Rear, Falmouth, ME 04105.

The property is located at 44 Blanchard Rd, Lebanon, ME 04027, in York County, reference as described in said mortgage.

The sale will be by public auction. All bidders for the property will be required to make a deposit of \$5,000.00 in cash, certified or bank check at the time of the public sale made payable to Brock & Scott, PLLC, which deposit is non-refundable as to the highest bidder. The balance of the purchase price shall be paid within thirty (30) days of the public sale. In the event a representative of 1900 Capital Trust II, By U.S. Bank Trust National Association, Not in its Individual Capacity but Solely as Certificate Trustee is not present at the time and place stated in this notice, no sale shall be deemed to have occurred and all rights to reschedule a subsequent sale are

Registration Systems, Inc., as nominee for Countrywide Home Loans, Inc. dated May 19, 2005 and recorded in the Cumberland County Registry of Deeds in Book 22673, Page 190, the period of redemption having expired, a public sale of the property described in the mortgage will be conducted on

December 16, 2019 at 10:00 AM at Bendett & McHugh, P.C., 30 Danforth Street, Suite 104, Portland, Maine

The property is located at 7 Liberty Avenue, Gray, Maine, as described in said mortgage. The sale will be by public auction. All bidders for the property will be required to make a deposit of \$5,000.00 in certified or bank check at the time of the public sale made payable to Bendett & McHugh, P.C., which deposit is non-refundable as to the highest bidder. The balance of the purchase price shall be paid within sixty (60) days of the public sale. In the event a representative of the mortgagee is not present at the time and place stated in this notice, no sale shall be deemed to have occurred and all rights to reschedule a subsequent sale are reserved. **If the sale is set aside for any reason, the Purchaser at the sale shall be entitled only to a return of the deposit paid. The Purchaser shall have no further recourse against the Mortgagor, the Mortgagee or the Mortgagee's attorney.**

This property will be sold as is. Additional terms will be announced at the public sale. Bank of America, N.A., successor by merger to BAC Home Loans Servicing, LP/k/a Countrywide Home Loans Servicing, LP by its attorneys, BENDETT & MCHUGH, P.C., 30 Danforth Street, Ste. 104, Portland, ME 04101 207-221-0016

Public Notice

erty will be required to make a deposit of \$5,000.00 in certified or bank check at the time of the public sale made payable to Bendett & McHugh, P.C., which deposit is non-refundable as to the highest bidder. The balance of the purchase price shall be paid within sixty (60) days of the public sale. In the event a representative of the mortgagee is not present at the time and place stated in this notice, no sale shall be deemed to have occurred and all rights to reschedule a subsequent sale are reserved. If the sale is set aside for any reason, the Purchaser at the sale shall be entitled only to a return of the deposit paid. The Purchaser shall have no further recourse against the Mortgagor, the Mortgagee or the Mortgagee's attorney. This property will be sold as is. Additional terms will be announced at the public sale.

Selene Finance LP by its attorneys, BENDETT & MCHUGH, P.C., 30 Danforth Street, Ste. 104, Portland, ME 04101 207-221-0016

Public Notice

NOTICE TO DESIGNERS

(Legal Advertisement) The University of Maine (UMaine), located in Orono, Maine, desires to procure architectural and engineering design services from individual firms or teams for the NEVILLE HALL RENOVATIONS project. The project consists of the renovations of approximately 5,400 square feet of classrooms on multiple floors in Neville Hall. The full Request for Qualifications can be viewed at: <http://umaine.edu/ofm/contractors/advertisements/> Submittals must be received prior to 2:00pm, on **Friday, November 22, 2019.**

Public Notice

Public Notice of Intent to File

Please take notice that Sprague Operating Resources, LLC, 59 Main Street, South Portland, Maine 04106, telephone number (207) 779-4899, intends to file an Air Emission License Application with the Maine Department of Environmental Protection (DEP) pursuant to the provisions of 38 M.R.S.A., Section 590 on or about November 13, 2019. The application is for a new boiler at the facility. According to Department regulations, interested parties must be publicly notified, written comments invited, and if justified, an opportunity for public hearing given. A request for a public hearing or for the Board of Environmental Protection to assume jurisdiction must be received by the Department, in writing, no later than 20 days after the application is accepted by the Department as complete for processing.

The application and supporting documents will be available for review at the Bureau of Air Quality (BAQ) DEP offices in Augusta, (207) 287-2437, during normal working hours. A copy of the application and supporting documentation will also be available at the municipal office in South Portland, Maine. Written public comments may be sent to Jane Gilbert at the Bureau of Air Quality State House Station #17, Augusta, Maine, 04333.

Public Notice

TOWN OF WINDHAM, MAINE STAFF REVIEW COMMITTEE NOTICE OF PUBLIC MEETING

Town Hall - 8 School Road - Conference Room 1 Tuesday, November 19, 2019 - 9:00 am
 19-24 VIP Windham Tax Map 71, Lots: 2, 3-1 - Roosevelt Trail & Amato Drive
 Minor site plan review. Questions or concerns, contact us at (207) 894-5960 ex. 2.



POWER ENGINEERS, INC.
303 U.S. ROUTE ONE
FREEPORT, ME 04032 USA

PHONE 207-869-1200
FAX 207-869-1299

November 12, 2019

Emily Scully, City Clerk
City of South Portland
City Hall
25 Cottage Road
South Portland, ME 04106

Subject: Sprague Operating Resources LLC Air Emission License Application for New Boiler

Dear Ms. Scully:

On behalf of Sprague Operating Resources, LLC (Sprague), POWER Engineers, Inc. is sending you the enclosed copy of the air emission license application that Sprague is submitting to the Maine Department of Environmental Protection (DEP) for an air license amendment for a new small boiler at their terminal located at 59 Main Street in South Portland. DEP regulations require that a copy of this application be on file at City Hall for review.

Please feel free to contact me if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Tom Rolfson".

Tom Rolfson

c: Rolf Westphal, Sprague Operating Resources LLC