

1 **REGULATION 1.06 Stationary Source Self Monitoring, Emissions Inventory**
2 **Development, and Reporting**

3
4 **Louisville Metro Air Pollution Control District ~~of Jefferson County~~**
5 **Jefferson County, Kentucky**

6
7 **Pursuant To: KRS Chapter 77 Air Pollution Control**

8 **Relates To: KRS Chapter 77 Air Pollution Control**

9 ~~**Pursuant To: KRS Chapter 77 Air Pollution Control**~~

10 **Necessity And Function:** KRS 77.180 authorizes the Air Pollution Control Board to adopt and
11 enforce all orders, rules, and regulations necessary or proper to accomplish the purposes of KRS
12 Chapter 77. This regulation establishes requirements ~~the conditions~~ for stationary source ~~self~~
13 monitoring, record-keeping, ~~emissions inventory development~~, and reporting.
14

15 **SECTION 1 In-Stack-Self Monitoring and Reporting**

16 **1.1** The District may require the owner or operator of a stationary source ~~process or process~~
17 ~~equipment~~ to install, operate, and maintain stack gas measuring, emission monitoring,
18 and parametric monitoring equipment, including ~~For cause, including, but not limited~~
19 ~~to, the incineration of hazardous or infectious waste or repeated or on-going violations,~~
20 ~~the District may also require data storage~~ devices ~~and transmission equipment and lines.~~
21 ~~The owner or operator of a process or process equipment that is required to install,~~
22 ~~operate, and maintain this measuring or monitoring equipment shall maintain records of~~
23 ~~monitoring data and make periodic reports of these data in a form, unit of measure, and at~~
24 ~~the time intervals required by, and periodically report monitoring or real-time monitoring~~
25 data to the District.

26 **1.2** Stack monitoring and reporting ~~R~~requirements for specific types of affected facilities are
27 contained in the applicable regulations.

28 **1.3** The District, for cause, may include ~~require~~ additional or more stringent requirements in
29 the permit for an individual affected facility than those ~~required~~ in the applicable
30 regulations. ~~otherwise applicable to that affected facility.~~

31
32 **SECTION 2 Ambient Air Monitoring and Reporting**

33 The District may require the owner or operator of a stationary source ~~process or process~~
34 ~~equipment~~ to install, operate, and maintain ambient air monitoring equipment and to periodically

35 ~~submit in accordance with methods prescribed by the District, and in the number and frequency~~
36 ~~as prescribed by the District, and to make periodic~~ ambient air monitoring reports to ~~at intervals~~
37 ~~as prescribed by~~ the District.

38

39 SECTION 3 Requirements ~~Provisions~~ for Section 4 and Section 5 Emissions
40 Statements ~~Data~~

41 ~~The following provisions apply to the emissions data requirements in Section 4 and Section 5:~~

42 3.1 When reporting actual emissions, the owner or operator shall include any increased
43 emissions that result from startups, shutdowns, and upset conditions ~~along with the~~
44 ~~routine emissions of a process or process equipment.~~

45 3.2 ~~For purposes of complying with the provisions of Section 4 and Section 5, all e~~ Emissions
46 shall be calculated using one of the following methods ~~as applicable~~:

47 3.2.1 An emission factor from the EPA's Emissions Factors and Policy Applications Center
48 (EFPAC), which includes AP-42,

49 3.2.2 An emission factor or method from the EPA's Emission Inventory Improvement
50 Program (EIIP),

51 3.2.3 A method ~~defined in a federally enforceable~~ the EPA approved District regulations,

52 3.2.4 An emission estimation equation, factor, or method included in an EPA regulation, ~~to~~
53 ~~the extent that the use of the equation, factor, or method is appropriate~~ for
54 determining actual emissions,

55 3.2.5 Stack test or CEMS data,

56 3.2.6 For a purchased material ~~that is purchased~~, information from the Material Safety Data
57 Sheet (MSDS), or

58 3.2.7 A method proposed by the owner or operator and approved in writing by the District.

59 3.3 ~~If a District approved method is used pursuant to section 3.2.7, then the District shall~~
60 ~~provide all documentation on the emissions calculation method to the EPA, upon request.~~

61 ~~3.4~~ The d Data required by Sections 4 and ~~Section~~ 5 shall include the process- or process
62 equipment-specific calculations used to determine emissions. The raw data used to
63 calculate the emissions shall be retained by the owner or operator of the stationary source
64 for ~~a period of not less than~~ 5 years and shall be made available to the District upon

65 request. Representative portions of the raw data used to calculate the emissions shall be
66 supplied to the District in support of the emissions statement, ~~in a format provided by the~~
67 ~~District.~~

68 ~~3.5 Notwithstanding the provisions of sections 4.2 to 4.4, if a stationary source is subject to~~
69 ~~Regulation 2.16 Title V Operating Permits, then the owner or operator of the stationary~~
70 ~~source shall comply with the provisions of section 4.1 and not the otherwise applicable~~
71 ~~provisions of sections 4.2 to 4.4, except for the gasoline throughput information specified~~
72 ~~in section 4.2.~~

73 ~~3.6 For the purpose of reporting emissions pursuant to Section 4, the owner or operator may~~
74 ~~exclude emissions that are defined in Regulation 5.01 General Provisions sections 1.6.1~~
75 ~~and 1.6.2 as de minimis.~~

76 ~~3.7 For the purpose of reporting emissions pursuant to Section 5, the owner or operator may~~
77 ~~exclude emissions that are defined in Regulation 5.01 section 1.6 as de minimis. This~~
78 ~~exclusion also applies to the related stack and fugitive emission release parameters,~~
79 ~~pursuant to section 5.3, that are applicable only to de minimis emissions.~~

80 ~~3.4~~ 8 Data required by Sections 4 and 5 shall be submitted on forms provided by the District,
81 or in an alternate format approved by the District.

82 3.5 A stationary source that did not emit an air contaminant required to be reported under
83 Section 4 or 5 during an applicable year shall submit a negative declaration in place of
84 the required emission statement~~If the owner or operator of a stationary source is required~~
85 ~~to submit an emissions statement pursuant to section 4.1 but no hazardous air pollutant or~~
86 ~~ammonia is emitted during the applicable year, then the owner or operator shall submit a~~
87 ~~negative declaration in place of the emissions statement for those air contaminants.~~

88 ~~3.9 If the owner or operator of a stationary source is required to submit an enhanced~~
89 ~~emissions statement pursuant to section 5.2 but no applicable toxic air contaminant is~~
90 ~~emitted during the applicable year, then the owner or operator shall submit a negative~~
91 ~~declaration in place of the enhanced emissions statement.~~

92 ~~3.10 For the purpose of reporting emissions pursuant to Section 5, the owner or operator may~~
93 ~~exclude emissions from motor vehicle fueling and refueling processes and process~~
94 ~~equipment for gasoline and other liquid fuels.~~

95 ~~3.11—For the purpose of reporting emissions pursuant to Section 5, the owner or operator may~~
96 ~~exclude emissions of a Category 2 TAC if the owner or operator of a Group 1 stationary~~
97 ~~source did not report the emission of that TAC to the EPA for the 2006 Toxics Release~~
98 ~~Inventory Program or if the owner or operator of a Group 2 stationary source did not~~
99 ~~report the emission of that TAC to the EPA for the 2007 Toxics Release Inventory~~
100 ~~Program.~~

101 ~~3.12—Notwithstanding the provisions of Sections 4 and 5, the District may, at any time, require~~
102 ~~the owner or operator of any stationary source to submit information, analyses, plans, or~~
103 ~~specifications regarding processes, process equipment, and the nature, extent, quantity, or~~
104 ~~concentration of the actual or potential emissions related to any process or process~~
105 ~~equipment at the stationary source on forms supplied by the District. The forms shall be~~
106 ~~returned to the District by the deadline date stated in the letter of transmittal with the~~
107 ~~forms or stated in the forms themselves.~~

108 SECTION 4 Emissions ~~Statements~~**Data** for Criteria Pollutants, HAPs, and Ammonia

109 4.1 All stationary sources shall maintain annual records of actual emissions of particulate
110 matter, sulfur dioxide, carbon monoxide, nitrogen dioxide, ozone precursor emissions of
111 volatile organic compounds and oxides of nitrogen, lead, ammonia, and all hazardous air
112 pollutants (HAPs) listed in Regulation 5.14. Stationary sources shall retain these records
113 for 5 years.

114 4.2 On or before April 15 of each year, ~~The owner or operator of a~~the following stationary
115 sources ~~subject to Regulation 2.16~~ described in sections 4.1.1, 4.1.2, or 4.1.3 shall submit
116 to the District an ~~emissions~~ statement of actual emissions of particulate matter, sulfur
117 dioxide, carbon monoxide, nitrogen dioxide, ozone precursor emissions of volatile
118 organic compounds and oxides of nitrogen, lead, ammonia, and all hazardous air
119 pollutants (HAPs) listed in Regulation 5.14 ~~Hazardous Air Pollutants and Source~~
120 ~~Categories~~ for the previous calendar year of operation to the District as follows.:

121 ~~4.1.1—Each year, on or before April 15th of the year, for the previous calendar year of~~
122 ~~operation, for a A stationary source subject to Regulation 2.16 ~~Title V Operating Permits~~ (Group~~
123 ~~1 stationary source);~~

124 ~~4.1.2—Each year, on or before April 15th of the year, for the previous calendar year of~~

125 ~~operation, for either of the following (Group 2 stationary source): 4.1.2.1A stationary~~
126 ~~source that has applied for an with an operating permit pursuant to Regulation 2.17~~
127 ~~Federally Enforceable District Origin Operating Permits, and/or~~

128 ~~4.1.32.2 — A stationary source that is subject to the permit requirements of Regulation 2.03~~
129 ~~section 1.1 or 1.2 but that is not included in section 4.1.1, or 4.1.2.1, 4.2, 4.3, or 4.4 of~~
130 ~~this regulation, if the actual emissions from the stationary source are 25 or more tons~~
131 ~~per year individually of sulfur dioxide, particulate matter, volatile organic~~
132 ~~compounds, or oxides of nitrogen, and~~

133 4.32 The District may require the owner or operator of any source not subject to section 4.2 to
134 report its actual or potential emissions to the District. The information shall be certified
135 pursuant to Section 6 and returned to the District by the deadline stated in the forms or
136 the letter of transmittal.

137 ~~Beginning August 15, 2006, and every third August 15 year thereafter, on or before August 15th~~
138 ~~of the year, for the previous calendar year of operation, for a stationary source that is~~
139 ~~subject to the permit requirements of Regulation 2.03 section 1.1 or 1.2 but is not~~
140 ~~included in section 4.1.1, 4.1.2, 4.2, 4.3, or 4.4 of this regulation, unless the District has~~
141 ~~notified the owner or operator of the stationary source in writing that an emissions~~
142 ~~statement is required every year.~~

143 ~~4.23 — Beginning April 15, 2006, and every third April 15 thereafter, the owner or operator of a~~
144 ~~gasoline dispensing facility subject to Regulation 6.40 Standards of Performance for~~
145 ~~Gasoline Transfer to Motor Vehicles (Stage II Vapor Recovery and Control), which does~~
146 ~~not include the initial transfer of gasoline into the fuel tanks of new motor vehicles at an~~
147 ~~automobile or truck assembly plant, shall submit to the District, on or before April 15th of~~
148 ~~each year, the monthly gasoline throughput, by grade, by month, for the previous~~
149 ~~calendar year of operation. In addition, beginning April 15, 2006, and every third year~~
150 ~~thereafter, the owner or operator of a gasoline dispensing facility, whose only permitted~~
151 ~~process or process equipment is the gasoline dispensing facility, shall submit to the~~
152 ~~District, on or before April 15th of the year, the amount, by type, in gallons per year, of~~
153 ~~cold cleaner material used for the previous calendar year.~~

154 ~~4.3 — Beginning July 15, 2006, and every third year thereafter, the owner or operator of a~~

155 ~~stationary source that is subject to Regulation 6.44 Standards of Performance For~~
156 ~~Existing Commercial Motor Vehicle And Mobile Equipment Refinishing Operations or~~
157 ~~Regulation 7.79 Standards of Performance For New Commercial Motor Vehicle And~~
158 ~~Mobile Equipment Refinishing Operations and is not a stationary source described in~~
159 ~~either section 4.1.1 or 4.1.2 shall submit to the District, on or before July 15th of the year,~~
160 ~~the amount, in gallons, of coating and solvent, by type, used each month for the previous~~
161 ~~calendar year.~~

162 ~~4.4 Beginning April 15, 2006, and every third year thereafter, the owner or operator of a~~
163 ~~stationary source that is subject to Regulation 5.02 Adoption of National Emission~~
164 ~~Standards for Hazardous Air Pollutants section 3.12 National Perchloroethylene Air~~
165 ~~Emission Standards for Dry Cleaning Facilities and is not a stationary source described~~
166 ~~in either section 4.1.1 or 4.1.2 shall submit to the District, on or before April 15th of the~~
167 ~~year, the perchloroethylene usage in gallons, by month, for the previous calendar year.~~

168
169 **SECTION 5. ~~Enhanced Emissions~~ Statements Data for Toxic Air Contaminants**

170 5.1 On or before ~~By~~ April 15 of each year, the owner or operator of a stationary source
171 described in section 4.2~~1~~ shall submit to the District a statement of actual emissions, for
172 the previous calendar year of operation, of toxic air contaminants (TACs) that are:

173 5.1.1 Listed in Sections 1 - 4 of Regulation 5.23, and

174 5.1.2 Not reported under Section 4 of this regulation.~~As used in Section 5:~~

175 5.2 In making the report under section 5.1, the owner or operator may exclude emissions
176 from motor vehicle fueling and refueling.;

177 ~~processes and process equipment for gasoline and other liquid fuels;~~

178 ~~.21~~

179 ~~5.1.1 "Category 1 TAC" means a toxic air contaminant (TAC) listed in Regulation 5.23~~
180 ~~Categories of Toxic Air Contaminants Section 1, and~~

181 ~~5.1.2 "Category 2 TAC" means a toxic air contaminant listed in Regulation 5.23 Section 2.~~

182 ~~5.2 The owner or operator of a stationary source shall submit an enhanced emissions~~
183 ~~statement for listed toxic air contaminants (TACs) to the District as follows:~~

184 ~~5.2.1 For a stationary source subject to Regulation 2.16 (Group 1 stationary source), the~~

185 following:

186 ~~5.2.1.1 The information listed in section 5.2.3 for the actual emissions by process or~~
187 ~~process equipment as follows:~~

188 ~~5.2.1.1.1 Category 1 TACs 7-1-05 to 12-~~
189 ~~31-05 Due 4-15-06,~~
190 ~~and~~

191 ~~5.2.1.1.2 Categories 1 and 2 TACs Calendar Year~~
192 ~~2006 Due 4-15-07,~~
193 ~~and each year~~
194 ~~thereafter, and~~

195 ~~5.2.1.2 The related stack and fugitive emission release parameters listed in section 5.3 as~~
196 ~~follows:~~

197 ~~5.2.1.2.1 Category 1 TACs Due 2-28-06, and~~

198 ~~5.2.1.2.2 Category 2 TACs Due 6-30-07,~~

199 ~~5.2.2 For a stationary source that has applied for an operating permit pursuant to~~
200 ~~Regulation 2.17 or a stationary source that is described in section 4.1.2.2 (Group 2~~
201 ~~stationary source), the following:~~

202 ~~5.2.2.1 The information listed in section 5.2.3 for the actual emissions by process or~~
203 ~~process equipment as follows:~~

204 ~~5.2.2.1.1 Category 1 TACs~~
205 ~~Calendar Year~~
206 ~~2006 Due 4-15-07,~~
207 ~~and~~

208 ~~5.2.2.1.2 Categories 1 and 2 TACs Calendar Year 2007~~
209 ~~Due 4-15-08,~~
210 ~~and each year~~
211 ~~thereafter, and~~

212 ~~5.2.2.2 The related stack and fugitive emission release parameters listed in section 5.3 as~~
213 ~~follows:~~

214 ~~5.2.2.2.1 Category 1 TACs Due 6-30-07, and~~

- 215 ~~5.2.2.2.2 Category 2 TACs Due 6 30 08, and~~
- 216 ~~5.2.3 For each process, all of the following:~~
- 217 ~~5.2.3.1 The operating schedule in hours per day, days per week, and weeks per year,~~
- 218 ~~5.2.3.2 The chemical name for each listed TAC emitted,~~
- 219 ~~5.2.3.3 The actual annual emission rate for each listed TAC, and~~
- 220 ~~5.2.3.4 For the process emissions, the percentage of the overall process emissions that are~~
- 221 ~~stack, flare, fugitive, or area or pit.~~
- 222 ~~5.3 The related stack and fugitive emission release parameters are as follows:~~
- 223 ~~5.3.1 Plot plan, drawn to scale, showing all of the following:~~
- 224 ~~5.3.1.1 Property line,~~
- 225 ~~5.3.1.2 Fences,~~
- 226 ~~5.3.1.3 Scale,~~
- 227 ~~5.3.1.4 North arrow,~~
- 228 ~~5.3.1.5 Buildings and other structures,~~
- 229 ~~5.3.1.6 Height of buildings and other structures (if buildings have tiers, profile of~~
- 230 ~~building tiers),~~
- 231 ~~5.3.1.7 Location of processes and process equipment,~~
- 232 ~~5.3.1.8 Location of points of emission, and~~
- 233 ~~5.3.1.9 UTM coordinates for corners of property, fences, buildings, and points of~~
- 234 ~~emission,~~
- 235 ~~5.3.2 For each stack, all of the following:~~
- 236 ~~5.3.2.1 Stack height,~~
- 237 ~~5.3.2.2 Stack diameter (or dimensions if the stack is not round),~~
- 238 ~~5.3.2.3 Exhaust gas temperature at stack exit point,~~
- 239 ~~5.3.2.4 Exhaust gas exit velocity,~~
- 240 ~~5.3.2.5 Exhaust gas flow rate in ACFM, and~~
- 241 ~~5.3.2.6 A diagram of the stack discharge point if the exhaust gas is not discharged~~
- 242 ~~unobstructed vertically upwards,~~
- 243 ~~5.3.3 For fugitive and area or pit emissions, all of the following:~~
- 244 ~~5.3.3.1 Dimensions of the point of release, and~~

- 245 ~~5.3.3.2 — Height of the point of release, and~~
- 246 ~~5.3.4 — For flares, all of the following:~~
- 247 ~~5.3.4.1 — Flare tip height,~~
- 248 ~~5.3.4.2 — Maximum and average flare input gas stream volumetric flow rate, temperature,~~
- 249 ~~and net heat input,~~
- 250 ~~5.3.4.3 — Identification of each component of the flare input gas stream,~~
- 251 ~~5.3.4.4 — Volumetric fraction for each component of the flare input gas stream, and~~
- 252 ~~5.3.4.5 — Flare stack diameter.~~
- 253 ~~5.4 — The related stack and fugitive emission release parameters required to be submitted~~
- 254 ~~pursuant to section 5.2 are required to be submitted only once unless there is an~~
- 255 ~~appreciable change in the information that has been submitted that would increase the~~
- 256 ~~maximum ambient concentration of a toxic air contaminant. The current actual annual~~
- 257 ~~emission rate of each listed toxic air contaminant is required to be submitted each year~~
- 258 ~~according to the schedule in section 5.2.~~
- 259 ~~5.5 — If the District determines that the concentration of a toxic air contaminant in the ambient~~
- 260 ~~air, resulting from the emission by a stationary source that is not required to submit the~~
- 261 ~~related stack and fugitive emission release parameters listed in section 5.3, may be~~
- 262 ~~greater than the level that would be considered environmentally acceptable pursuant to~~
- 263 ~~Regulation 5.21 Environmental Acceptability for Toxic Air Contaminants section 2.5.2~~
- 264 ~~or 2.5.3, then the District may require the owner or operator to submit the applicable~~
- 265 ~~stack and fugitive emission release parameter information. In this case, the District shall~~
- 266 ~~provide written notice to the owner or operator, specifying the information required to be~~
- 267 ~~submitted and the applicable deadline.~~
- 268 ~~5.6 — If the District determines, based on ambient air monitoring or modeling of allowed~~
- 269 ~~emissions, that the concentration of a toxic air contaminant in the ambient air is greater~~
- 270 ~~than the level that would be considered environmentally acceptable pursuant to~~
- 271 ~~Regulation 5.21 section 2.8.1 or 2.8.2 and a potentially responsible entity for the~~
- 272 ~~emissions of the toxic air contaminant is identified, then the District may require the~~
- 273 ~~owner or operator of an identified stationary source to submit the information identified~~
- 274 ~~in sections 5.2 and 5.3 of this regulation. If the stationary source is already scheduled to~~

275 ~~submit the information identified in section 5.2 and 5.3, then the District may require the~~
276 ~~information to be submitted on an accelerated schedule. In either case, the District shall~~
277 ~~provide written notice to the owner or operator, specifying the required information to be~~
278 ~~submitted and the applicable deadline.~~

279

280 **SECTION 6. Certification by a Responsible Official**

281 ~~The i~~Information submitted to the District pursuant to this regulation shall contain a formal
282 certification by a responsible official, as defined in Regulation 2.16 ~~section 1.35 (excluding~~
283 ~~section 1.35.1.1), stating of the truth, accuracy, and completeness of the information. The~~
284 ~~certification required is as follows:~~

285 "Based on information and belief formed after reasonable inquiry, I certify that
286 the statements and information in this document are true, accurate, and complete."

287

288 ~~**SECTION 7 Confidentiality and Open Records Requirements**~~

289 ~~Nothing in this regulation is intended to preempt the confidentiality and open records provisions~~
290 ~~of Regulation 1.08 Administrative Procedures.~~

291

292 Adopted v1/4-19-72 effective 4-19-72; amended v2/9-1-76, v3/6-13-79, v4/12-17-86,
293 v5/11-18-92, v6/12-15-93, v7/6-21-05 effective 7-1-05, v8/9-21-05, v9/

294