

[If adopted, this would be a new regulation]

[Approved by the Committee of the Whole on January 13, 2005, for Public Review]

[Changes to Draft #2 (the proposed regulation) are redlined and double underlined]

1     **REGULATION 5.22**           *Procedures for Determining the Maximum Ambient Concentration of*  
2                                   *a Toxic Air Contaminant*

3     **Air Pollution Control District of Jefferson County**  
4     **Jefferson County, Kentucky**

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

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

7     **Necessity and Function:** KRS 77.180 authorizes the Air Pollution Control Board to adopt and  
8     enforce all orders, rules, and regulations necessary or proper to accomplish the purposes of KRS  
9     Chapter 77. This regulation establishes the procedures for determining the maximum concentration  
10    of a toxic air contaminant in the ambient air.

11    **SECTION 1     Determining the Maximum Ambient Concentration of a Toxic Air Contaminant**

12    1.1     The maximum ambient concentration of a toxic air contaminant determined by one of the  
13    procedures in Sections 2 to 5 shall be used to determine compliance with the ambient goals  
14    ~~levels~~ for environmental acceptability (EA goals~~levels~~) established in Regulation 5.21  
15    *Environmental Acceptability for Toxic Air Contaminants.*

16    1.2     For intermittent emissions, the average emission rate may be used to determine the  
17    maximum ambient concentration if the average rate is not less than 10% of the maximum  
18    hourly rate. If the average rate for an intermittent emission is less than 10% of the maximum  
19    hourly rate, then a rate of 10% of the maximum hourly rate may be used. Intermittent  
20    emissions are emissions that are not allowed to be emitted continuously for the entire length  
21    of the time specified in Regulation 5.20 *Methodology for Determining Benchmark Ambient*  
22    *Concentration of a Toxic Air Contaminant* as the applicable averaging time for a benchmark  
23    ambient concentration.

24    1.3     Each procedure in Sections 2 to 5 represents an acceptable method for determining the  
25    maximum ambient concentration of a toxic air contaminant, although there are stated  
26    limitations for the use of the Tier 2 procedure. In general, the intent is that the Tier 1  
27    procedure is the most simple to use, requires the least amount of process- and process  
28    equipment-specific information, and provides the most conservative maximum ambient  
29    concentration; proceeding on a continuum, the Tier 4 procedure is the most complex to use,  
30    requires the greatest amount of process- and process equipment-specific information, and  
31    provides the least conservative maximum ambient concentration. The following is a brief  
32    description of the four procedures:

33    1.3.1    Tier 1 - Table 1: Simple Factor for Determining Maximum Ambient Concentration: The  
34    allowed emission rate for the appropriate averaging time for the specific toxic air  
35    contaminant is divided by a factor from the table to give the maximum ambient  
36    concentration.

37    1.3.2    Tier 2 - Table 2: Annual Factor: The allowed hourly emission rate is divided by the  
38    appropriate annual factor from the table to give the maximum ambient concentration.  
39    The annual factor from the table depends on the building height, stack height-to-building  
40    height ratio, and the distance to the closest secured property line, and the annual factor  
41    from the table may be adjusted depending on the averaging time of the benchmark

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- 42 ambient concentration for the specific toxic air contaminant.
- 43 1.3.3 Tier 3 - SCREEN3 and TSCREEN Models: The output of these screening models is the  
44 maximum hourly ambient concentration. The maximum hourly ambient concentration  
45 may be multiplied by an adjustment factor depending on the averaging time of the  
46 benchmark ambient concentration for the specific toxic air contaminant. The models  
47 contain different algorithms based upon the type of release, for example, stack or  
48 fugitive. Basic dispersion modeling parameters are required, such as building height and  
49 dimensions, stack height, stack diameter, exhaust gas flow rate, exhaust gas temperature,  
50 and emission rate for a stack emission.
- 51 1.3.4 Tier 4 - EPA-Approved Dispersion Model: The output of these highly complex models  
52 is the maximum ambient concentration for the identified averaging time, which is set  
53 within the model depending on the averaging time of the benchmark ambient  
54 concentration for the specific toxic air contaminant. The models contain different  
55 algorithms based upon the type of release, for example, stack or fugitive. Detailed  
56 dispersion modeling parameters are required.
- 57 1.4 If there is not an established applicable emission limit for a toxic air contaminant (TAC),  
58 then the potential to emit for that TAC shall be used. However, pursuant to Regulation 5.21  
59 Section 4.3, the owner or operator of the stationary source may request a new emission limit  
60 for that TAC that, upon receipt by the District, may be used to determine the maximum  
61 ambient concentration pursuant to Regulation 5.22.
- 62 1.5 If the District determines that the model chosen, model options, or model inputs are not  
63 appropriate to model the emissions from a process or process equipment, then the District  
64 may disapprove the results of the modeling demonstration.

65 **SECTION 2 Tier 1 - Table 1: Simple Factor for Determining Maximum Ambient**  
66 **Concentration**

- 67 2.1 The maximum concentration of a toxic air contaminant from a process or process equipment  
68 in the ambient air may be determined by using the appropriate factor from Table 1 and the  
69 applicable Equation 1 to 4. The appropriate factor is determined by the averaging time for  
70 a specific toxic air contaminant, which is established in Regulation 5.20. The calculated  
71 maximum concentration is then used in determining compliance with the EA goals levels in  
72 Regulation 5.21 by using the applicable equation in Regulation 5.21 section 2.2, 2.5, or 2.8.  
73 If Table 1 contains two factors for a benchmark ambient concentration averaging time, then  
74 the factor that results in the greater maximum concentration shall be used.
- 75 2.2 Table 1 *Simple Factor for Determining Maximum Concentration* reads as follows:

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Table 1

## Simple Factor for Determining Maximum Ambient Concentration

BAC <sup>1</sup> Averaging Time	Annual Factor (F <sub>A</sub> ) <sup>2</sup>	24-Hour Factor (F <sub>24</sub> ) <sup>3</sup>	8-Hour Factor (F <sub>8</sub> ) <sup>4</sup>	1-Hour Factor (F <sub>1</sub> ) <sup>5</sup>
Annual	480			0.54
24 hours		0.12		0.05
8 hours			0.02	0.02
1 hour				0.001

Notes for Table 1:

<sup>1</sup> BAC is the benchmark ambient concentration of a toxic air contaminant as determined pursuant to Regulation 5.20.

<sup>2</sup> The Annual Factor F<sub>A</sub> is in units of (lb/year)/(μg/m<sup>3</sup>). Use Equation 1.

<sup>3</sup> The 24-Hour Factor F<sub>24</sub> is in units of (lb/24 hours)/(μg/m<sup>3</sup>). Use Equation 2.

<sup>4</sup> The 8-Hour Factor F<sub>8</sub> is in units of (lb/8 hours)/(μg/m<sup>3</sup>). Use Equation 3.

<sup>5</sup> The 1-Hour Factor F<sub>1</sub> is in units of (lb/1 hour)/(μg/m<sup>3</sup>). Use Equation 4.

$$\text{Maximum Concentration}_{i,j} = \frac{\text{Allowed annual emission}_{i,j}}{F_A} \quad \text{Equation 1}$$

$$\text{Maximum Concentration}_{i,j} = \frac{\text{Allowed 24-hour emission}_{i,j}}{F_{24}} \quad \text{Equation 2}$$

$$\text{Maximum Concentration}_{i,j} = \frac{\text{Allowed 8-hour emission}_{i,j}}{F_8} \quad \text{Equation 3}$$

$$\text{Maximum Concentration}_{i,j} = \frac{\text{Allowed 1-hour emission}_{i,j}}{F_1} \quad \text{Equation 4}$$

Where: i = an individual toxic air contaminant, from  
 j = an individual process or process equipment,  
 Allowed emission is in units of pounds per the applicable time period,  
 and  
 Maximum Concentration is in units of μg/m<sup>3</sup>.

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### SECTION 3 Tier 2 - Table 2: Annual Factor for Determining Maximum Ambient Concentration

- 3.1 The maximum concentration of a toxic air contaminant from a process or process equipment in the ambient air may be determined by using the appropriate annual factor from Table 2 (adjusted if appropriate) and Equation 5. The calculated maximum concentration is then used in determining compliance with the EA goals levels in Regulation 5.21 by using the applicable equation in Regulation 5.21 section 2.2, 2.5, or 2.8.
- 3.2 The use of Table 2 requires information about the dispersion characteristics of the source of emissions, namely, the distance to the nearest secured property line, the height of the stack, and, as described in section 3.7.2, the height of the influential building.
- 3.3 Table 2 shall not be used if any of the following provisions applies:
- 3.3.1 The stack height is less than 10 feet or the emission is a fugitive emission,
- 3.3.2 The influential building height is more than 100 feet,
- 3.3.3 There are terrain elevations that are more than 25% of the discharging stack height within a distance of 500 feet from the stack, or
- 3.3.4 The analysis is for an elevated receptor, for example, a hospital air intake.
- 3.4 The annual factor value derived from Table 2 is the ratio of the annual averaged hourly emission rate divided by the maximum annual ambient impact, in units of (lbs/hr)/(μg/m<sup>3</sup>).
- 3.5 The annual factor shall be adjusted if the averaging time of the benchmark ambient concentration (BAC) for the specific toxic air contaminant as determined pursuant to Regulation 5.20 is different than annual. This adjustment is done as follows:
- 3.5.1 24-hr factor (lbs/hr)/(μg/m<sup>3</sup>) = annual factor × 0.091.
- 3.5.2 8-hr factor (lbs/hr)/(μg/m<sup>3</sup>) = annual factor × 0.046.
- 3.5.3 1-hr factor (lbs/hr)/(μg/m<sup>3</sup>) = annual factor × 0.02.
- 3.6 Determine the maximum concentration. This is done by using the allowed hourly emission limit (lb/hr), taking into account the intermittent emission provision of section 1.2, for a toxic air contaminant from a process or process equipment; the annual factor as derived from Table 2 and, if appropriate, making the adjustment pursuant to section 3.5; and performing the calculation in Equation 5. The resulting maximum concentration is in units of μg/m<sup>3</sup>:

$$\text{Maximum Concentration}_{i,j} = \frac{\text{Allowed 1-hour emission}_{i,j}}{\text{annual (adjusted) factor}} \quad \text{Equation 5}$$

- Where: i = an individual toxic air contaminant, from
- j = an individual process or process equipment, and
- annual (adjusted) factor is the annual factor derived from Table 2, including any adjustment required by section 3.5.
- 3.7 Instructions for deriving the annual factor from Table 2 are as follows:
- 3.7.1 Determine the height of the discharging stack from ground level in feet (H<sub>s</sub>).
- 3.7.2 Determine the height of the influential building in feet (H<sub>b</sub>). This is done by first identifying all buildings, including buildings on-site and off-site, located within a distance of 5 times their height from the discharging stack. Then, determine which building is the highest. This is the influential building, with height (H<sub>b</sub>) in feet. If the stack is not attached to a building, then a building height of 40% of the stack height shall be assumed.

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- 143 3.7.3 Determine the ratio of the stack height to the influential building height by dividing the  
144 stack height, in feet, by the influential building height, in feet,  $H_s/H_b$ .
- 145 3.7.4 Determine the minimum distance, in feet, from the discharging stack to the secured  
146 property line. If there is no secured property line, then a distance of 25 feet shall be  
147 used.
- 148 3.7.5 Determine the appropriate annual factor from Table 2. This is done by selecting the  
149 column with the appropriate influential building height and  $H_s/H_b$  ratio, and selecting  
150 the row with the appropriate minimum distance to the secured property line.
- 151 3.7.5.1 If the influential building height is between values in the column headings, then use  
152 the column with the lower value or interpolate between values in the column  
153 headings.
- 154 3.7.5.2 If  $H_s$  is less than  $H_b$ , then set the influential building height equal to the stack height  
155 and use the 1.25  $H_s/H_b$  column.
- 156 3.7.5.3 If  $H_s/H_b$  is between 1 and 1.25, then select the 1.25 column.
- 157 3.7.5.4 If  $H_s/H_b$  is between 1.25 and 1.75, then use the 1.25 column or interpolate between  
158 the 1.25 and 1.75 columns.
- 159 3.7.5.5 If  $H_s/H_b$  is between 1.75 and 2.5, then use the 1.75 column or interpolate between  
160 the 1.75 and 2.5 columns.
- 161 3.7.5.6 If  $H_s/H_b$  is greater than or equal to 2.5, then use the 2.5 column.
- 162 3.7.5.7 If the minimum distance to the secured property line is between 2 distances in the  
163 row headings, then use the row with the lower value or interpolate between values  
164 in the row headings , for example, if the distance is 250 feet, then use the 200 foot  
165 distance row in Table 2.
- 166 3.8 Table 2 *Annual Factor* reads as follows:

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Table 2 Annual Factor

	Bldg Ht	10			20			30			40		
	$H_s/H_b$	1.25	1.75	2.50	1.25	1.75	2.50	1.25	1.75	2.50	1.25	1.75	2.50
	Stck Ht	12.5	17.5	25	25	35	50	37.5	52.5	75	50	70	100
168	<b>D</b> 25	0.0085	0.022	0.159	0.032	0.084	0.679	0.075	0.220	1.603	0.152	0.421	2.941
169	<b>I</b> 50	0.0087	0.022	0.159	0.032	0.084	0.679	0.075	0.220	1.603	0.152	0.421	2.941
170	<b>S</b> 75	0.0096	0.022	0.159	0.032	0.084	0.679	0.075	0.220	1.603	0.152	0.421	2.941
171	<b>T</b> 100	0.011	0.023	0.159	0.033	0.084	0.679	0.075	0.220	1.603	0.152	0.421	2.941
172	<b>A</b> 200	0.020	0.040	0.159	0.042	0.084	0.679	0.082	0.220	1.603	0.157	0.421	2.941
173	<b>N</b> 300	0.030	0.053	0.178	0.059	0.116	0.679	0.099	0.221	1.603	0.174	0.421	2.941
174	<b>C</b> 400	0.040	0.065	0.171	0.077	0.140	0.679	0.126	0.268	1.603	0.200	0.421	2.941
175	<b>E</b> 500	0.051	0.077	0.189	0.094	0.164	0.679	0.153	0.318	1.603	0.243	0.505	2.941
176	600	0.063	0.091	0.222	0.112	0.188	0.746	0.181	0.368	1.603	0.287	0.588	2.941
177	<b>F</b> 700	0.075	0.104	0.241	0.130	0.211	0.812	0.208	0.413	1.603	0.328	0.664	2.941
178	<b>T</b> 800	0.089	0.119	0.257	0.148	0.235	0.768	0.235	0.459	1.608	0.370	0.740	2.941
179	900	0.103	0.134	0.264	0.167	0.258	0.770	0.261	0.502	1.672	0.411	0.812	2.941
180	1000	0.119	0.151	0.272	0.187	0.282	0.800	0.289	0.545	1.786	0.452	0.883	2.959
181	1500	0.209	0.245	0.318	0.290	0.406	1.080	0.428	0.756	1.953	0.654	1.214	3.521
182	2000	0.311	0.350	0.383	0.408	0.539	1.256	0.573	0.965	2.304	0.861	1.534	3.731

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Table 2 Annual Factor (Con't)

187		<b>Bldg Ht</b>		<b>50</b>			<b>60</b>			<b>70</b>			<b>80</b>		
188		<b>H<sub>s</sub> / H<sub>b</sub></b>	1.25	1.75	2.50	1.25	1.75	2.50	1.25	1.75	2.50	1.25	1.75	2.50	
189		<b>Stck Ht</b>	62.5	87.5	125	75	105	150	87.5	123	175	100	140	200	
190	<b>D</b>	25	0.263	0.736	4.630	0.412	1.114	6.098	0.606	1.656	8.621	0.839	2.242	8.333	
191	<b>I</b>	50	0.263	0.736	4.630	0.412	1.114	6.098	0.606	1.656	8.621	0.839	2.242	8.333	
192	<b>S</b>	75	0.263	0.736	4.630	0.412	1.114	6.098	0.606	1.656	8.621	0.839	2.242	8.333	
193	<b>T</b>	100	0.263	0.736	4.630	0.412	1.114	6.098	0.606	1.656	8.621	0.839	2.242	8.333	
194	<b>A</b>	200	0.266	0.736	4.630	0.413	1.114	6.098	0.606	1.656	8.621	0.839	2.242	8.333	
195	<b>N</b>	300	0.282	0.736	4.630	0.426	1.114	6.098	0.614	1.656	8.621	0.845	2.242	8.333	
196	<b>C</b>	400	0.312	0.736	4.630	0.455	1.114	6.098	0.641	1.656	8.621	0.868	2.242	8.333	
197	<b>E</b>	500	0.351	0.743	4.630	0.498	1.114	6.098	0.683	1.656	8.621	0.909	2.242	8.333	
198		600	0.409	0.838	4.630	0.545	1.114	6.098	0.741	1.656	8.621	0.967	2.242	8.333	
199	<b>F</b>	700	0.468	0.951	4.717	0.625	1.269	6.250	0.808	1.672	8.621	1.040	2.242	8.333	
200	<b>T</b>	800	0.528	1.064	4.803	0.705	1.429	6.410	0.901	1.825	8.621	1.111	2.242	8.333	
201		900	0.585	1.168	4.854	0.781	1.572	6.579	1.000	2.016	8.621	1.235	2.488	9.091	
202		1000	0.644	1.276	4.950	0.861	1.724	6.849	1.101	2.203	9.091	1.359	2.732	10.000	
203		1500	0.924	1.761	5.376	1.232	2.404	7.042	1.577	3.106	9.615	1.953	3.846	11.905	
204		2000	1.205	2.222	5.882	1.603	3.049	7.353	2.041	3.968	9.615	2.525	4.808	12.821	

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Table 2 Annual Factor (Con't)

Bldg Ht		90			100		
H <sub>s</sub> /H <sub>b</sub>		1.25	1.75	2.50	1.25	1.75	2.50
Stck Ht		113	158	225	125	175	250
D	25	1.126	3.049	13.514	1.458	3.876	14.286
I	50	1.126	3.049	13.514	1.458	3.876	14.286
S	75	1.126	3.049	13.514	1.458	3.876	14.286
T	100	1.126	3.049	13.514	1.458	3.876	14.286
A	200	1.126	3.049	13.514	1.458	3.876	14.286
N	300	1.129	3.049	13.514	1.458	3.876	14.286
C	400	1.147	3.049	13.514	1.475	3.876	14.286
E	500	1.185	3.049	13.514	1.506	3.876	14.286
	600	1.244	3.049	13.514	1.563	3.876	14.286
F	700	1.316	3.049	13.514	1.634	3.876	14.286
T	800	1.404	3.049	13.514	1.730	3.876	14.286
	900	1.502	3.086	13.514	1.832	3.876	14.286
	1000	1.634	3.289	13.514	1.931	3.876	14.286
	1500	2.358	4.505	15.152	2.778	5.208	16.129
	2000	3.049	5.618	16.129	3.597	6.494	18.519

Notes for Table 2:

Bldg Ht is the building height, in feet,

H<sub>s</sub>/H<sub>b</sub> is the ratio of the stack height to the building height,

Stack Ht is the stack (or release) height, in feet, and

The annual factor is in units of (lbs/hr)/(μg/m<sup>3</sup>).

#### SECTION 4 Tier 3 - SCREEN3 and TSCREEN Models

4.1 The maximum concentration of a toxic air contaminant from a process or process equipment in the ambient air may be determined by using the EPA SCREEN3 or TSCREEN models, using the appropriate algorithm for the type of emission release, for example, stack or fugitive. The maximum concentration derived from the use of one of these models, with the

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- 234 adjustment identified in section 4.2 as appropriate, is then used in determining compliance  
 235 with the EA goals levels in Regulation 5.21 by using the applicable equation in  
 236 Regulation 5.21 section 2.2, 2.5, or 2.8.
- 237 4.2 The resulting maximum concentration from the SCREEN3 or TSCREEN model is in units  
 238 of  $\mu\text{g}/\text{m}^3$  for a 1-hour averaging time. If the averaging time for a benchmark ambient  
 239 concentration (BAC) for the specific toxic air contaminant as determined pursuant to  
 240 Regulation 5.20 is other than 1 hour, then the resulting maximum concentration shall be  
 241 adjusted as follows:
- 242 4.2.1 For a BAC with an 8-hour averaging time, multiply by 0.44,  
 243 4.2.2 For a BAC with a 24-hour averaging time, multiply by 0.22, and  
 244 4.2.3 For a BAC with an annual averaging time, multiply by 0.02.
- 245 4.3 The SCREEN3 model shall be run in the “regulatory default mode” as described in the  
 246 SCREEN3 User’s Guide (EPA-454/B-95-004). This document is available on the Internet  
 247 at “[www.epa.gov/scram001/userg/screen/screen3d.pdf](http://www.epa.gov/scram001/userg/screen/screen3d.pdf)”.
- 248 4.4 If the TSCREEN model is used, the model inputs and options used shall be included with  
 249 the modeling results submitted to the District pursuant to Regulation 5.21.
- 250 4.5 The SCREEN3 model may be downloaded for free from the Internet at “[www.epa.gov/scram001/tt22.htm#SCREEN3](http://www.epa.gov/scram001/tt22.htm#SCREEN3)”.
- 252 4.6 The TSCREEN model may be downloaded for free from the Internet at “[www.epa.gov/scram001/tt22.htm#TSCREEN](http://www.epa.gov/scram001/tt22.htm#TSCREEN)”.

## 254 SECTION 5 Tier 4 - EPA-Approved Dispersion Model

### 255 5.1 Tier 4 models.

256 5.1.1 The maximum concentration of a toxic air contaminant from a process or process  
 257 equipment in the ambient air may be determined by using the EPA Industrial Source  
 258 Complex Model (ISC3) model or another appropriate model included in Appendix A  
 259 *Summaries of Preferred Air Quality Models* of 40 CFR Part 51 Appendix W *Guideline*  
 260 *on Air Quality Models*. Additionally, a model included on in the EPA list of Alternative  
 261 Models (Case-by-Case), available on the Internet at  
 262 “<http://www.epa.gov/scram001/tt22.htm#altmod>” (formerly Appendix B *Summaries of*  
 263 *Alternative Air Quality Models* of 40 CFR Part 51 Appendix W) may be used, provided  
 264 that the use of the alternative Appendix B model meets one of the three conditions for  
 265 approval specified in 40 CFR Part 51 Appendix W §3.2.2(b) Appendix B section B.0  
 266 *Introduction and Availability* and prior approval is given by the District.

267 5.1.2 As used in section 5.1, the “maximum concentration” shall be the calculated arithmetic  
 268 mean of the maximum ambient concentrations derived from each of five consecutive  
 269 years of meteorological data. The location for this calculated ambient concentration  
 270 shall be the location associated with the highest of the five individual maximum ambient  
 271 concentrations derived by the model.

272 5.1.3 The maximum concentration derived from the use of one of the these models in section  
 273 5.1.1 is then used in determining compliance with the EA goals levels in Regulation 5.21  
 274 by using the applicable equation in Regulation 5.21 section 2.2, 2.5, or 2.8.

275 5.2 In running one of the models allowed pursuant to section 5.1.1, the model shall be set to  
 276 report the maximum concentration for the averaging time period consistent with the

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- 277 averaging time established for the toxic air contaminant pursuant to Regulation 5.20.  
278 5.3 The ISC3 model shall be run in the “regulatory default mode” as described in the *User’s*  
279 *Guide for the Industrial Source Complex (ISC3) Dispersion Models*, Volume 1 (EPA-454/B-  
280 95-003a). This document is available on the Internet at “www.epa.gov/scram001/userg/  
281 regmod/isc3v1.pdf”.
- 282 5.4 The ISC3 model may be downloaded for free from the Internet at “www.epa.gov/scram001/  
283 tt22.htm#ISC”.

284 Adopted v1/\_\_\_\_\_ ; effective \_\_\_\_\_.