**Section 726.APPENDIX A Tier I and Tier II Feed Rate and Emissions Screening Limits for Metals**

I-A

Tier I and Tier II Feed Rate and Emissions Screening Limits for Noncarcinogenic Metals for Facilities in Noncomplex Terrain

Values for Urban Areas

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| TESH | Antimony | Barium | Lead | Mercury | Silver | Thallium |
| (m) | (g/hr) | (g/hr) | (g/hr) | (g/hr) | (g/hr) | (g/hr) |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 4 | 60. | 10000. | 18. | 60. | 600. | 60. |
| 6 | 68. | 11000. | 20. | 68. | 680. | 68. |
| 8 | 76. | 13000. | 23. | 76. | 760. | 76. |
| 10 | 86. | 14000. | 26. | 86. | 860. | 86. |
| 12 | 96. | 17000. | 30. | 96. | 960. | 96. |
| 14 | 110. | 18000. | 34. | 110. | 1100. | 110. |
| 16 | 130. | 21000. | 36. | 130. | 1300. | 130. |
| 18 | 140. | 24000. | 43. | 140. | 1400. | 140. |
| 20 | 160. | 27000. | 46. | 160. | 1600. | 160. |
| 22 | 180. | 30000. | 54. | 180. | 1800. | 180. |
| 24 | 200. | 34000. | 60. | 200. | 2000. | 200. |
| 26 | 230. | 39000. | 68. | 230. | 2300. | 230. |
| 28 | 260. | 43000. | 78. | 260. | 2600. | 260. |
| 30 | 300. | 50000. | 90. | 300. | 3000. | 300. |
| 35 | 400. | 66000. | 110. | 400. | 4000. | 400. |
| 40 | 460. | 78000. | 140. | 460. | 4600. | 460. |
| 45 | 600. | 100000. | 180. | 600. | 6000. | 600. |
| 50 | 780. | 130000. | 230. | 780. | 7800. | 780. |
| 55 | 960. | 170000. | 300. | 960. | 9600. | 960. |
| 60 | 1200. | 200000. | 360. | 1200. | 12000. | 1200. |
| 65 | 1500. | 250000. | 430. | 1500. | 15000. | 1500. |
| 70 | 1700. | 280000. | 500. | 1700. | 17000. | 1700. |
| 75 | 1900. | 320000. | 580. | 1900. | 19000. | 1900. |
| 80 | 2200. | 360000. | 640. | 2200. | 22000. | 2200. |
| 85 | 2500. | 400000. | 760. | 2500. | 25000. | 2500. |
| 90 | 2800. | 460000. | 820. | 2800. | 28000. | 2800. |
| 95 | 3200. | 540000. | 960. | 3200. | 32000. | 3200. |
| 100 | 3600. | 600000. | 1100. | 3600. | 36000. | 3600. |
| 105 | 4000. | 680000. | 1200. | 4000. | 40000. | 4000. |
| 110 | 4600. | 780000. | 1400. | 4600. | 46000. | 4600. |
| 115 | 5400. | 860000. | 1600. | 5400. | 54000. | 5400. |
| 120 | 6000. | 1000000. | 1800. | 6000. | 60000. | 6000. |

I-B

Tier I and Tier II Feed Rate and Emissions Screening Limits for Noncarcinogenic Metals for Facilities in Noncomplex Terrain

Values for Rural Areas

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| TESH | Antimony | Barium | Lead | Mercury | Silver | Thallium |
| (m) | (g/hr) | (g/hr) | (g/hr) | (g/hr) | (g/hr) | (g/hr) |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 4 | 31. | 5200. | 9.4 | 31. | 310. | 31. |
| 6 | 36. | 6000. | 11. | 36. | 360. | 36. |
| 8 | 40. | 6800. | 12. | 40. | 400. | 40. |
| 10 | 46. | 7800. | 14. | 46. | 460. | 46. |
| 12 | 58. | 9600. | 17. | 58. | 580. | 58. |
| 14 | 68. | 11000. | 21. | 68. | 680. | 68. |
| 16 | 86. | 14000. | 26. | 86. | 860. | 86. |
| 18 | 110. | 18000. | 32. | 110. | 1100. | 110. |
| 20 | 130. | 22000. | 40. | 130. | 1300. | 130. |
| 22 | 170. | 28000. | 50. | 170. | 1700. | 170. |
| 24 | 220. | 36000. | 64. | 220. | 2200. | 220. |
| 26 | 280. | 46000. | 82. | 280. | 2800. | 280. |
| 28 | 350. | 58000. | 100. | 350. | 3500. | 350. |
| 30 | 430. | 76000. | 130. | 430. | 4300. | 430. |
| 35 | 720. | 120000. | 210. | 720. | 7200. | 720. |
| 40 | 1100. | 180000. | 320. | 1100. | 11000. | 1100. |
| 45 | 1500. | 250000. | 460. | 1500. | 15000. | 1500. |
| 50 | 2000. | 330000. | 600. | 2000. | 20000. | 2000. |
| 55 | 2600. | 440000. | 780. | 2600. | 26000. | 2600. |
| 60 | 3400. | 580000. | 1000. | 3400. | 34000. | 3400. |
| 65 | 4600. | 760000. | 1400. | 4600. | 46000. | 4600. |
| 70 | 5400. | 900000. | 1600. | 5400. | 54000. | 5400. |
| 75 | 6400. | 1100000. | 1900. | 6400. | 64000. | 6400. |
| 80 | 7600. | 1300000. | 2300. | 7600. | 76000. | 7600. |
| 85 | 9400. | 1500000. | 2800. | 9400. | 94000. | 9400. |
| 90 | 11000. | 1800000. | 3300. | 11000. | 110000. | 11000. |
| 95 | 13000. | 2200000. | 3900. | 13000. | 130000. | 13000. |
| 100 | 15000. | 2600000. | 4600. | 15000. | 150000. | 15000. |
| 105 | 18000. | 3000000. | 5400. | 18000. | 180000. | 18000. |
| 110 | 22000. | 3600000. | 6600. | 22000. | 220000. | 22000. |
| 115 | 26000. | 4400000. | 7800. | 26000. | 260000. | 26000. |
| 120 | 31000. | 5000000. | 9200. | 31000. | 310000. | 31000. |

I-C

Tier I and Tier II Feed Rate and Emissions Screening Limits for Noncarcinogenic Metals for Facilities in Complex Terrain

Values for Urban and Rural Areas

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| TESH | Antimony | Barium | Lead | Mercury | Silver | Thallium |
| (m) | (g/hr) | (g/hr) | (g/hr) | (g/hr) | (g/hr) | (g/hr) |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 4 | 14. | 2400. | 4.3 | 14. | 140. | 14. |
| 6 | 21. | 3500. | 6.2 | 21. | 210. | 21. |
| 8 | 30. | 5000. | 9.2 | 30. | 300. | 30. |
| 10 | 43. | 7600. | 13. | 43. | 430. | 43. |
| 12 | 54. | 9000. | 17. | 54. | 540. | 54. |
| 14 | 68. | 11000. | 20. | 68. | 680. | 68. |
| 16 | 78. | 13000. | 24. | 78. | 780. | 78. |
| 18 | 86. | 14000. | 26. | 86. | 860. | 86. |
| 20 | 96. | 16000. | 29. | 96. | 960. | 96. |
| 22 | 100. | 18000. | 32. | 100. | 1000. | 100. |
| 24 | 120. | 19000. | 35. | 120. | 1200. | 120. |
| 26 | 130. | 22000. | 36. | 130. | 1300. | 130. |
| 28 | 140. | 24000. | 43. | 140. | 1400. | 140. |
| 30 | 160. | 27000. | 46. | 160. | 1600. | 160. |
| 35 | 200. | 33000. | 58. | 200. | 2000. | 200. |
| 40 | 240. | 40000. | 72. | 240. | 2400. | 240. |
| 45 | 300. | 50000. | 90. | 300. | 3000. | 300. |
| 50 | 360. | 60000. | 110. | 360. | 3600. | 360. |
| 55 | 460. | 76000. | 140. | 460. | 4600. | 460. |
| 60 | 580. | 94000. | 170. | 580. | 5800. | 580. |
| 65 | 680. | 110000. | 210. | 680. | 6800. | 680. |
| 70 | 780. | 130000. | 240. | 780. | 7800. | 780. |
| 75 | 860. | 140000. | 260. | 860. | 8600. | 860. |
| 80 | 960. | 160000. | 290. | 960. | 9600. | 960. |
| 85 | 1100. | 180000. | 330. | 1100. | 11000. | 1100. |
| 90 | 1200. | 200000. | 360. | 1200. | 12000. | 1200. |
| 95 | 1400. | 230000. | 400. | 1400. | 14000. | 1400. |
| 100 | 1500. | 260000. | 460. | 1500. | 15000. | 1500. |
| 105 | 1700. | 280000. | 500. | 1700. | 17000. | 1700. |
| 110 | 1900. | 320000. | 580. | 1900. | 19000. | 1900. |
| 115 | 2100. | 360000. | 640. | 2100. | 21000. | 2100. |
| 120 | 2400. | 400000. | 720. | 2400. | 24000. | 2400. |

I-D

Tier I and Tier II Feed Rate and Emissions Screening Limits for Carcinogenic Metals for Facilities in Noncomplex Terrain

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | |  |
|  |  | |  |
| Values for use in urban areas | |  | Values for use in rural areas |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| TESH (m) | Arsenic (g/hr) | Cadmium (g/hr) | Chromium (g/hr) | Beryllium (g/hr) | Arsenic (g/hr) | Cadmium (g/hr) | Chromium (g/hr) | Beryllium (g/hr) |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4 | 0.46 | 1.1 | 0.17 | 0.82 | 0.24 | 0.58 | 0.086 | 0.43 |
| 6 | 0.54 | 1.3 | 0.19 | 0.94 | 0.28 | 0.66 | 0.10 | 0.50 |
| 8 | 0.60 | 1.4 | 0.22 | 1.1 | 0.32 | 0.76 | 0.11 | 0.56 |
| 10 | 0.68 | 1.6 | 0.24 | 1.2 | 0.36 | 0.86 | 0.13 | 0.64 |
| 12 | 0.76 | 1.8 | 0.27 | 1.4 | 0.43 | 1.1 | 0.16 | 0.78 |
| 14 | 0.86 | 2.1 | 0.31 | 1.5 | 0.54 | 1.3 | 0.20 | 0.96 |
| 16 | 0.96 | 2.3 | 0.35 | 1.7 | 0.68 | 1.6 | 0.24 | 1.2 |
| 18 | 1.1 | 2.6 | 0.40 | 2.0 | 0.82 | 2.0 | 0.30 | 1.5 |
| 20 | 1.2 | 3.0 | 0.44 | 2.2 | 1.0 | 2.5 | 0.37 | 1.9 |
| 22 | 1.4 | 3.4 | 0.50 | 2.5 | 1.3 | 3.2 | 0.48 | 2.4 |
| 24 | 1.6 | 3.9 | 0.58 | 2.8 | 1.7 | 4.0 | 0.60 | 3.0 |
| 26 | 1.8 | 4.3 | 0.64 | 3.2 | 2.1 | 5.0 | 0.76 | 3.9 |
| 28 | 2.0 | 4.8 | 0.72 | 3.6 | 2.7 | 6.4 | 0.98 | 5.0 |
| 30 | 2.3 | 5.4 | 0.82 | 4.0 | 3.5 | 8.2 | 1.2 | 6.2 |
| 35 | 3.0 | 6.8 | 1.0 | 5.4 | 5.4 | 13. | 1.9 | 9.6 |
| 40 | 3.6 | 9.0 | 1.3 | 6.8 | 8.2 | 20. | 3.0 | 15. |
| 45 | 4.6 | 11. | 1.7 | 8.6 | 11. | 28. | 4.2 | 21. |
| 50 | 6.0 | 14. | 2.2 | 11. | 15. | 37. | 5.4 | 28. |
| 55 | 7.6 | 18. | 2.7 | 14. | 20. | 50. | 7.2 | 36. |
| 60 | 9.4 | 22. | 3.4 | 17. | 27. | 64. | 9.6 | 48. |
| 65 | 11. | 28. | 4.2 | 21. | 36. | 86. | 13. | 64. |
| 70 | 13. | 31. | 4.6 | 24. | 43. | 100. | 15. | 76. |
| 75 | 15. | 36. | 5.4 | 27. | 50. | 120. | 18. | 90. |
| 80 | 17. | 40. | 6.0 | 30. | 60. | 140. | 22. | 110. |
| 85 | 19. | 46. | 6.8 | 34. | 72. | 170. | 26. | 130. |
| 90 | 22. | 50. | 7.8 | 39. | 86. | 200. | 30. | 150. |
| 95 | 25. | 58. | 9.0 | 44. | 100. | 240. | 36. | 180. |
| 100 | 28. | 68. | 10. | 50. | 120. | 290. | 43. | 220. |
| 105 | 32. | 76. | 11. | 56. | 140. | 340. | 50. | 260. |
| 110 | 36. | 86. | 13. | 64. | 170. | 400. | 60. | 300. |
| 115 | 40. | 96. | 15. | 72. | 200. | 480. | 72. | 360. |
| 120 | 46. | 110. | 17. | 82. | 240. | 580. | 86. | 430. |

I-E

Tier I and Tier II Feed Rate and Emissions Screening Limits for Carcinogenic Metals for Facilities in Complex Terrain

Values for Use in Urban and Rural Areas

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TESH (m) | Arsenic (g/hr) | Cadmium (g/hr) | Chromium (g/hr) | Beryllium (g/hr) |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 4 | 0.11 | 0.26 | 0.040 | 0.20 |
| 6 | 0.16 | 0.39 | 0.058 | 0.29 |
| 8 | 0.24 | 0.58 | 0.086 | 0.43 |
| 10 | 0.35 | 0.82 | 0.13 | 0.62 |
| 12 | 0.43 | 1.0 | 0.15 | 0.76 |
| 14 | 0.50 | 1.3 | 0.19 | 0.94 |
| 16 | 0.60 | 1.4 | 0.22 | 1.1 |
| 18 | 0.68 | 1.6 | 0.24 | 1.2 |
| 20 | 0.76 | 1.8 | 0.27 | 1.3 |
| 22 | 0.82 | 1.9 | 0.30 | 1.5 |
| 24 | 0.90 | 2.1 | 0.33 | 1.6 |
| 26 | 1.0 | 2.4 | 0.36 | 1.8 |
| 28 | 1.1 | 2.7 | 0.40 | 2.0 |
| 30 | 1.2 | 3.0 | 0.44 | 2.2 |
| 35 | 1.5 | 3.7 | 0.54 | 2.7 |
| 40 | 1.9 | 4.6 | 0.68 | 3.4 |
| 45 | 2.4 | 5.4 | 0.84 | 4.2 |
| 50 | 2.9 | 6.8 | 1.0 | 5.0 |
| 55 | 3.5 | 8.4 | 1.3 | 6.4 |
| 60 | 4.3 | 10. | 1.5 | 7.8 |
| 65 | 5.4 | 13. | 1.9 | 9.6 |
| 70 | 6.0 | 14. | 2.2 | 11. |
| 75 | 6.8 | 16. | 2.4 | 12. |
| 80 | 7.6 | 18. | 2.7 | 13. |
| 85 | 8.2 | 20. | 3.0 | 15. |
| 90 | 9.4 | 23. | 3.4 | 17. |
| 95 | 10. | 25. | 4.0 | 19. |
| 100 | 12. | 28. | 4.3 | 21. |
| 105 | 13. | 32. | 4.8 | 24. |
| 110 | 15. | 35. | 5.4 | 27. |
| 115 | 17. | 40. | 6.0 | 30. |
| 120 | 19. | 44. | 6.4 | 33. |

(Source: Amended at 37 Ill. Reg. 3249, effective March 4, 2013)