

SUBPART K: PROCESS EMISSION SOURCES

Section 217.301 Industrial Processes

- a) **New Industrial Processes.** No person shall cause or allow the emission of nitrogen oxides into the atmosphere from any new process producing products of organic nitrations and/or oxidations using nitric acid to exceed the following standards and limitations:
- 1) 2.5 kg of nitrogen oxides (expressed as nitrogen dioxide) per metric tonne of nitric acid (100 percent acid basis) used in such new process (5.0 lbs/T).
 - 2) Visible emissions in excess of 5 percent opacity.
- b) **Existing Industrial Processes.** No person shall cause or allow the emission of nitrogen oxides into the atmosphere from any existing process producing products of organic nitrations and/or oxidations using nitric acid to exceed 5.0 kg of nitrogen oxides (expressed as nitrogen dioxide) per metric tonne of nitric acid (100 percent acid basis) used in such process (10.0 lbs/T).
- c) **Exemption.** Subsections (a) and (b) of this rule shall not apply to any industrial process using less than 90.7 metric tonnes (100 tons) of nitric acid (100 percent acid basis) annually or which produces less than 907 kg (1 ton) of nitrogen oxides (expressed as nitrogen dioxide) per year.

SUBPART O: CHEMICAL MANUFACTURE

Section 217.381 Nitric Acid Manufacturing Processes

- a) **New Weak Nitric Acid Processes.** No person shall cause or allow the emission of nitrogen oxides into the atmosphere from any new weak nitric acid manufacturing process to exceed the following standards and limitations:
- 1) 1.5 kg of nitrogen oxides (expressed as nitrogen dioxide) per metric tonne of acid produced (100 percent acid basis) (3.0 lbs/T);
 - 2) Visible emissions in excess of 5 percent opacity;
 - 3) 0.05 kg of nitrogen oxides (expressed as nitrogen dioxide) per metric tonne of acid produced (100 percent acid basis) from any acid storage tank vents (0.1 lbs/T).
- b) **Existing Weak Nitric Acid Processes.** No person shall cause or allow the emission of nitrogen oxides into the atmosphere from any existing weak nitric acid manufacturing process to exceed the following standards and limitations:

- 1) 2.75 kg of nitrogen oxides (expressed as nitrogen dioxide) per metric tonne of acid produced (100 percent acid basis) (5.5 lbs/T);
- 2) Visible emissions in excess of 5 percent opacity;
- 3) 0.1 kg of nitrogen oxides (expressed as nitrogen dioxide) per metric tonne of acid produced (100 percent acid basis) from any acid storage tank vents (0.2 lbs/T).

- c) **Concentrated Nitric Acid Processes.** No person shall cause or allow the emission of nitrogen oxides into the atmosphere from any concentrated nitric acid manufacturing process to exceed the following standards and limitations:

- 1) 1.5 kg of nitrogen oxides (expressed as nitrogen dioxide) per metric tonne of acid produced (100 percent acid basis) (3.0 lbs/T);
- 2) 225 ppm of nitrogen oxides (expressed as nitrogen dioxide) in any effluent gas stream emitted into the atmosphere;
- 3) Visible emissions in excess of 5 percent opacity.

- d) **Nitric Acid Concentrating Processes.** No person shall cause or allow the emission of nitrogen oxides into the atmosphere from any nitric acid concentrating process to exceed the following limitations:

- 1) 1.5 kg of nitrogen oxides (expressed as nitrogen dioxide) per metric tonne of acid produced (100 percent acid basis) (3.0 lbs/T);
- 2) Visible emissions in excess of 5 percent opacity.

SUBPART V: ELECTRIC POWER GENERATION

Section 217.521 Lake of Egypt Power Plant

- a) The standard for nitrogen oxides of Section 217.121(d) does not apply when solid fossil fuel containing 25 percent by weight or more of coal refuse is burned in Southern Illinois Power Cooperative's Unit No. 4 at its Lake of Egypt Power Plant.
- b) The standard for nitrogen oxides of Section 217.121(e) does not apply when solid fossil fuel containing 25 percent by weight or more of coal refuse is burned in combination with gaseous, liquid or other solid fossil fuel in Southern Illinois Power Cooperative's Unit No. 4 at its Lake of Egypt Power Plant.

(Source: Amended at 2 Ill. Reg. 17, p. 101, effective April 13, 1978)