

## **SECTION 33 - CHLORINE IN CHEMICAL PROCESSES**

### **33.1 Applicability**

This section applies to any Stationary Source in Clark County which operates a Chemical Process in which molecular chlorine gas is generated. Hereafter, "chlorine" will mean molecular chlorine gas.

### **33.2 Performance Standard**

The Potential to Emit for chlorine from all Emission Units related to a specific Chemical Process shall be less than one pound per hour.

### **33.3 Determination of Potential to Emit**

33.3.1 Within 30 days of the date these regulations become effective, each Owner or Operator of a Stationary Source subject to this section shall submit to the Control Officer, a written estimate of the Potential to Emit for chlorine. The estimate shall include the basis and method of calculation.

33.3.2 Upon receipt of such estimate, the Control Officer shall review the same to determine whether the estimate is accurate and supported by available data. If the estimate is acceptable, the Control Officer shall so notify the Owner or Operator within 20 days of receipt of the estimate. If the estimate is not acceptable, the Control Officer shall make an independent estimate of the Potential to Emit, showing his basis and method of calculation. Such independent estimate shall be served upon the Owner or Operator within 30 days after receipt of the estimated Potential to Emit. The Owner or Operator may appeal the independent estimate of the Control Officer to the Air Pollution Control Hearing Board by serving a written notice of appeal upon the Control Officer within 20 days after receipt of the Control Officer's independent estimate. In the event no such appeal is filed, the Control Officer's independent estimate shall become final and binding for the purpose of this section.

In the event an appeal is considered, the Air Pollution Control Hearing Board shall review the Operator's original estimate, the Control Officer's independent estimate, the bases and methods of calculations used by each party, and shall make a final determination of the Potential to Emit for the purpose of this Section 33.

### **33.4 Monitoring compliance at existing sources with a Potential to Emit not greater than the Performance Standard**

33.4.1 To assure compliance with the Performance Standard, conditions for the Operating Permits shall include numerical standards which can be routinely

monitored. The numerical standards shall be the criteria regulating chlorine Emissions from that Stationary Source. For Emission Units in which the chlorine is released through a stack or vent pipe, hereinafter called Type 1 Emission Units, the numerical standard shall be equal to the Performance Standard. For Emission Units in which the chlorine is not released through a stack or vent pipe, or in which the Emissions from the process equipment area are not detectable, hereinafter called Type 2 Emission Units, the numerical standard shall be a quantitative measurement which can be performed during an inspection by the Control Officer or his representative. An example of a quantitative measurement is to measure for chlorine, within one to five meters of the equipment in which chlorine is being processed, with a multi-stroke gas sampling pump equipped with a rapid analysis calibrated detector tube.

33.4.2 Each Owner or Operator shall submit to the Control Officer for his approval, a plan for monitoring compliance with numerical standard. The plan shall be submitted within 30 days of the date of final determination of the Potential to Emit.

- 1) For Type 1 Emission Units, the plan shall recommend design of the sampling method and describe sampling procedures and equipment.
- 2) For Type 2 Emission Units, the plan shall propose a numerical standard and a procedure for measuring it. The plan may discuss a sampling protocol to be implemented in the event that the numerical standard is exceeded. The plan may discuss a method for measuring background concentrations.

33.4.3 On or before September 1, 1984, the Control Officer shall issue the new operating permit conditions. These will include numerical standards and a description of the monitoring method.

### **33.5 Existing sources with a Potential to Emit greater than the Performance Standard**

33.5.1 If the Potential to Emit exceeds the Performance Standard, each Owner or Operator of such an existing source shall:

- 1) submit for approval, a proposed chlorine Emissions monitoring plan. The plan shall:
  - a) specify the design and frequency of sampling to allow estimation of the annual average actual Emissions from the Chemical Process. This shall be submitted within 60 days of the date of final determination of the Potential to Emit;
  - b) provide for observation and direct participation by the department during testing; and

- c) provide for a monitoring report to be submitted to the Control Officer each year; and
- 2) submit for approval, a proposed Performance Standard compliance plan in accordance with the requirements set forth in Subsection 33.7. This shall be submitted within 90 days of the date of final determination of the Potential to Emit.

33.5.2 The Control Officer shall approve, or modify the chlorine Emissions monitoring plan and the performance standard compliance plan, and notify the Owner or Operator within 30 days from the date of receipt of same. Any modification or rewriting shall become final and binding if the modification or rewriting is not appealed to the Air Pollution Control Hearing Board within 10 days from written service of same.

33.5.3 The Control Officer shall issue temporary Operating Permits for the applicable Chemical Process with permit conditions incorporating the implementation of the chlorine Emissions monitoring plan and the approved Performance Standard compliance plan as finally approved.

### **33.6 Requirements for Performance Standard compliance plan (for sources with a Potential to Emit greater than the Performance Standard)**

33.6.1 The proposed Performance Standard compliance plan shall provide for the following requirements:

- 1) The Operator shall achieve compliance with the Performance Standard by August 1, 1988;
- 2) The Operator shall identify critical activities or projects which will be accomplished during each calendar quarter until the final compliance date; and
- 3) The compliance plan shall describe what equipment and process technology will be used to comply with the Performance Standard. The description shall be sufficiently detailed so that the Control Officer can determine if the expected Potential to Emit will meet the Performance Standard.

### **33.7 New Source Review**

33.7.1 This subsection applies to any new Stationary Source of chlorine Emissions proposing to locate in Clark County. This subsection also applies to an existing Stationary Source if new Emission Units are constructed at the existing Stationary Source. The collection of new Emission Units would be considered a new Stationary Source.

33.7.2 Each new emission unit shall employ process equipment and air pollution control equipment designed to maintain the Lowest Achievable Emission Rate.

33.7.3 Each new Stationary Source shall also comply with all other air quality regulations of the Clark County Board of County Commissioners.

### **33.8 Enforcement**

Any operating permit condition established as a result of this section is considered equivalent to a regulation. If there is an alleged violation of a permit condition, the Control Officer may exercise any of the enforcement options enumerated in Subsection 4.7 or Subsection 16.8 of these Regulations.

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History: Amended: May 18, 1984; April 24, 2001; June 3, 2003; July 1, 2004; January 21, 2020.