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3745-520-680

Hydrogen sulfide and other gases and odors - prevention and investigation of releases; implementation of the hydrogen sulfide and other gases contingency plan.

(A) Prevention. An owner or operator shall do the following:

- (1) Operate the C&DD facility in a manner that minimizes the release of hydrogen sulfide or other gases created by the operation of the C&DD facility.
- (2) Prevent a nuisance, offensive odor, threat to public health or safety or the environment, air pollution, or contribution to air pollution, from the release of hydrogen sulfide or other gases created by the operation of the C&DD facility.

(B) Investigation of the source of odors.

- (1) An owner or operator shall commence investigating the source of odors not later than seven days after the frequency, duration, or intensity of odors at the C&DD facility increases, as determined through routine facility inspections conducted in accordance with rule 3745-520-615 of the Administrative Code.
- (2) An investigation shall include at a minimum complying with paragraphs (C) and (D) of this rule to investigate whether a release of hydrogen sulfide or other gases is a source of the odors.
- (3) An odor investigation shall be conducted for a period of ninety days.
- (4) An owner or operator shall record in the log of operations the steps of the investigation and any actions taken to remediate the odor during the investigation.
- (5) Portable equipment used to measure ambient air concentrations of hydrogen sulfide and other gases shall conform to and be operated in accordance with paragraph (E) of this rule.

(C) Ambient air monitoring using portable equipment.

When an odor investigation in accordance with paragraph (B) of this rule is occurring, an owner or operator shall do the following:

- (1) While conducting an odor inspection in accordance with rule 3745-520-615 of the Administrative Code, use portable equipment to take at least one measurement of the ambient air concentration of hydrogen sulfide and other gases at each location where an odor is evaluated using the odor intensity reference scale.

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(2) Record each measurement in the log of operations.

(D) Surface emissions surveys.

(1) To evaluate the emissions of hydrogen sulfide and other gases from areas of disposed material, an owner or operator shall conduct a surface emissions survey at least weekly and in accordance with the following:

(a) Using portable equipment to measure ambient air concentrations of hydrogen sulfide and other gases from a consistent height near the surface of disposed material.

(b) Consisting of measurements taken along the perimeter of areas of disposed material and along a pattern that traverses the areas of disposed material at intervals no greater than one hundred feet apart and where visual observations are indicative of elevated concentrations of gas emissions.

(c) Consisting of measurements taken approximately fifty feet apart along the perimeter of areas of disposed material and along the traversing pattern and at intervening distances where pronounced odors are detected during the survey.

(d) At a time and during weather conditions conducive to evaluating surface emissions.

(2) An owner or operator shall complete a surface emissions survey report that includes the following:

(a) The date and time the survey was conducted.

(b) Weather conditions at the time of the survey.

(c) A topographic map that conforms to rule 3745-520-605 of the Administrative Code and includes the following:

(i) Delineation of the monitoring route taken.

(ii) The location of each measurement and the result.

(iii) The wind direction.

[Comment: An owner or operator may use the topographic map submitted in the most recent annual operational report to report the results of surface emissions surveys.]

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(d) The name, mailing address, and telephone number of the person who conducted the surface emissions survey.

(e) An evaluation of the survey results.

(f) A summary of the results of the ambient air monitoring required by paragraph (C) of this rule updated to the date of the surface emissions survey.

(g) A description of any actions taken to minimize the release of hydrogen sulfide or other gases by the owner or operator in response to surface emissions survey or ambient air monitoring results. This description shall include the date when and the location where each action was performed.

(3) Not later than five days after each surface emissions survey, an owner or operator shall submit the surface emissions survey report to the licensing authority. An owner or operator shall insert a copy of the report into the log of operations for the day the survey was conducted.

(E) Portable equipment requirements.

(1) An owner or operator shall do the following:

(a) Select equipment capable of detecting hydrogen sulfide concentrations of five parts per billion.

(b) Select equipment that has a manufacturer-specified field sensor calibration verification method.

(c) Calibrate, operate, and maintain the equipment in accordance with manufacturer recommendations, instructions, and operating manuals, or other written procedures that provide adequate assurance that the equipment would reasonably be expected to monitor accurately.

(d) Field calibrate the equipment at the C&DD facility prior to placing the equipment into operation at the facility.

(2) The owner or operator shall maintain records of equipment calibration and maintenance at the C&DD facility or other location acceptable to the licensing authority.

(3) The owner or operator shall provide equipment calibration and maintenance records upon the request of Ohio EPA or the approved board of health.

(F) Implementation of the hydrogen sulfide and other gases contingency plan.

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(1) An owner or operator shall implement and comply with the hydrogen sulfide and other gases contingency plan in response to any one or combination of the following events:

(a) The owner or operator determines that implementation of the contingency plan is warranted.

(b) Upon receipt of a notice that paragraph (A) of this rule has been violated.

(2) As soon as practicable but not later than twenty-four hours after an owner or operator determines that implementation of the contingency plan is warranted pursuant to paragraph (F)(1) of this rule, the owner or operator shall notify the following authorities:

(a) The fire department that would respond to the C&DD facility.

(b) The local air pollution control authority, if applicable.

(c) Ohio EPA.

(d) The approved board of health.

If the notification is not in writing, then a written notification shall be submitted to these authorities not later than three days after the owner or operator determines that implementation of the contingency plan is warranted.

(3) An owner or operator shall record in the log of operations the date and time the contingency plan was implemented.

(4) An owner or operator shall continue to comply with paragraph (B) of this rule when implementing a hydrogen sulfide and other gases contingency plan.

[Comment: Pursuant to rule 3745-520-685 of the Administrative Code, no permit to install modifications or alterations or license modifications are necessary prior to installing the required engineered components during implementation of a hydrogen sulfide or other gases contingency plan.]

(G) Continued compliance with a hydrogen sulfide or other gases contingency plan.

(1) An owner or operator shall continue to comply with an implemented contingency plan until the owner or operator has obtained written authorization from the licensing authority releasing the owner or operator from the obligation to comply with the contingency plan.

(2) The licensing authority may decline to act on a request for such an authorization.

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- (3) If the licensing authority chooses to act on a request, the licensing authority shall consider the concentrations measured by monitoring equipment, the trends in air quality concentrations, and the value of the air quality data.
- (4) If the licensing authority grants authorization releasing the owner or operator from the obligation to comply with the contingency plan, the licensing authority shall retain and distribute copies of the authorization pursuant to rule 3745-500-130 of the Administrative Code.