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3745-520-480

Hydrogen sulfide and other gases contingency plan.

[Comment: This plan is required to be included in an application for a license; however, the plan should also serve as a stand-alone plan that can be easily retrieved in the event the plan must be implemented.]

(A) The hydrogen sulfide and other gases contingency plan shall provide for effective action in response to a release of hydrogen sulfide gas or other gases created by the operation of a C&DD facility that pose the following:

- (1) A nuisance.
- (2) An offensive odor.
- (3) A threat to public health or safety or the environment.
- (4) The cause or contribution to air pollution.

(B) The hydrogen sulfide and other gases contingency plan shall contain the following:

- (1) A section containing the following general C&DD facility information:
 - (a) A copy of the completed application cover sheet submitted with the license application.
 - (b) The precise geographic location and facility boundary shown on a road map with all access points and entrances clearly identified.
 - (c) The name, mailing address, and telephone number of the emergency contacts for the facility. The emergency contacts shall be individuals authorized to commit facility resources such as equipment, material, and services necessary for responding to a release of hydrogen sulfide or other gases created by the operation of a C&DD facility that pose a nuisance, cause an offensive odor, or pose a threat to public health or safety or the environment. At a minimum, one individual and one back-up individual shall be designated and listed in the plan as the emergency coordinator for the facility.
 - (d) Emergency telephone numbers, if available, and non-emergency telephone numbers for the fire department that would respond to the facility, the local air pollution control authority, if applicable, Ohio EPA, and the approved board of health.
 - (e) The name, mailing address, and telephone number of the person who prepared the hydrogen sulfide and other gases contingency plan.

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- (2) A section containing a description of how and when the owner or operator will install and operate meteorological stations at the C&DD facility at locations selected to maximize the detection of hydrogen sulfide and other gases at and beyond the facility boundary. This section shall contain the following:
- (a) Selection of the number and locations of the meteorological stations necessary to characterize weather conditions at the facility and conditions affecting the transport of hydrogen sulfide and other gases.
 - (b) Procedures, equipment, and time frames for the installation and operation of meteorological stations. The contingency plan shall ensure that each meteorological station meets the following criteria:
 - (i) Be sited and located in accordance with EPA-454/R-99-005 or EPA-450/4-87-007 as described in rule 3745-500-03 of the Administrative Code.
 - (ii) Be capable of accurately measuring temperature, wind speed, wind direction, and barometric pressure on a continuous basis.
 - (iii) Record wind direction in one degree increments.
 - (iv) Be equipped with a data recording device capable of recording each reading.
 - (v) Be able to sample and record measurements at least three hundred sixty times per hour and generate thirty minute average data for all parameters as well as standard deviation and turbulence wind data for use in the calculation of atmospheric stability.
- (3) A section containing a description of how and when the owner or operator will install and operate continuous ambient air monitoring equipment at the C&DD facility to maximize the detection of hydrogen sulfide at and beyond the facility boundary at locations selected to evaluate the migration of odor to off-site receptors. This section shall contain the following:
- (a) Procedures for selecting the number and locations of continuous monitors to measure ambient air concentrations of hydrogen sulfide and other gases.
 - (b) Procedures for selection of equipment and time frames for the installation and operation of equipment. The contingency plan shall ensure that each continuous monitor conforms to and is operated in accordance with the following specifications:

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- (i) The equipment shall be capable of detecting hydrogen sulfide concentrations of five parts per billion by volume.
 - (ii) The equipment shall be compatible with a data recorder and data software.
 - (iii) The equipment shall take automated and continuous measurements.
 - (iv) The equipment shall perform an automated zero calibration at least once every twenty-four hours.
- (c) Procedures to ensure that equipment is calibrated, operated, and maintained 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) Procedures to ensure that equipment is field calibrated at the facility prior to placing the equipment into operation at the facility.
- (e) Procedures to ensure that all measurements are recorded and retained at the facility or other location acceptable to the licensing authority and such recorded measurements are made available upon the request of the Ohio EPA or the approved board of health.
- (f) Procedures to ensure that records of equipment calibration and maintenance are retained at the facility or other location acceptable to the licensing authority and such records are made available upon the request of Ohio EPA or the approved board of health.
- (4) A section containing a description of the procedures, equipment, and time frames that the owner or operator will utilize to place transitional cover or construct a cap system on areas of the C&DD facility necessary to control the release of hydrogen sulfide or other gases. This section shall also contain the following:
 - (a) An indication of whether transitional cover will be placed or a cap system will be constructed.
 - (b) Provisions for complying with applicable rules for placement of transitional cover or with applicable rules for design and construction of a cap system, whichever option is chosen.
- (5) A section containing a description of the procedures, equipment, and time frames that the owner or operator will utilize to construct and operate a gas management system to control the release of hydrogen sulfide or other gases. This section shall also contain the following:

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(a) A statement that the owner or operator will design and construct a gas management system in accordance with rule 3745-520-275 and Chapter 3745-512 of the Administrative Code.

(b) A statement that the owner or operator will operate and monitor a gas management system in accordance with rules 3745-520-665 and 3745-520-675 of the Administrative Code.

(c) Procedures and time frames that the owner or operator will utilize to obtain each necessary authorization pursuant to Chapter 3704. of the Revised Code.

[Comment: The design of the gas management system and construction specifications are not required to be included in the contingency plan.]

(6) Any other information requested by Ohio EPA or the approved board of health that is necessary to determine whether the owner or operator is prepared to provide effective action in response to a release of hydrogen sulfide gas or other gases created by the operation of the C&DD facility that pose a nuisance, cause an offensive odor, or pose a threat to public health or safety or the environment.