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3745-520-665

Gas management system operation.

An owner or operator shall comply with this rule if a gas management system has been installed at the C&DD facility.

(A) Gas management system operations. An owner or operator shall do the following:

- (1) Extract gas from each area of the C&DD facility in which gas collection devices have been installed.
- (2) Vent collected gas to the atmosphere or convey collected gas to a gas control device, whichever is authorized in applicable authorizing documents and regulations.
- (3) Operate the gas management system in a manner that prevents fire and controls odors.
- (4) Perform cover maintenance to prevent ambient air infiltration into disposed material.
- (5) Keep the gas management system free of liquids to the extent necessary to maintain the function of the gas management system.

(B) Gas collection device operations. An owner or operator shall operate a gas collection device in accordance with the following:

- (1) Negative pressure shall be maintained at each gas well wellhead except during the following circumstances:
 - (a) When an increased temperature is measured and the owner or operator takes measures to prevent a subsurface fire.
 - (b) When a subsurface fire is occurring in the vicinity of the well and the owner or operator takes measures to respond to the fire.
- (2) For gas from a gas collection device going through disposed material:
 - (a) The temperature shall not exceed one hundred thirty degrees Fahrenheit.
 - (b) The nitrogen concentration shall not exceed twenty per cent by volume.
 - (c) The oxygen concentration shall not exceed five per cent by volume.

(C) If monitoring of the gas management system pursuant to rule 3745-520-675 of the Administrative Code indicates positive pressure during circumstances other than

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those specified in paragraph (B)(1) of this rule or if monitoring indicates an exceedance of a value in paragraph (B)(2) of this rule (temperature, nitrogen, or oxygen), the owner or operator shall do the following:

(1) Prevent additional occurrences of positive pressure and additional exceedances of values in paragraph (B)(2) of this rule while performing maintenance, adjustments, or other corrective actions.

(2) For an exceedance of a value in paragraph (B)(2) of this rule, the following:

(a) Perform cover maintenance and maintenance of the gas collection device and connections to reduce air infiltration not later than five days after the monitoring event. Remonitor the gas collection device not later than one calendar day after performing maintenance.

(b) If a gas collection device is connected to a gas mover, adjust the vacuum to reduce the gas extracted not later than five days after the monitoring event. Remonitor the gas collection device not later than one calendar day after the adjustment.

(c) If the correction of the exceedance cannot be achieved not later than fifteen calendar days after the original monitoring event, notify the licensing authority in writing of the exceedance and of the actions that the owner or operator plans to take to correct the exceedance.

(3) For positive pressure, the following:

(a) Adjust the vacuum to increase the gas extracted not later than five days after the monitoring event. Remonitor the gas well not later than one calendar day after the adjustment.

(b) Do one or more of the following not later than one hundred twenty days after the original monitoring event if negative pressure cannot be achieved within fifteen calendar days of the original monitoring event, unless the monitoring event occurred during the first one hundred eighty days after gas collection system startup:

(i) Replace the gas well or expand the gas management system.

(ii) Upgrade the gas mover equipment, header pipe, or control device.

(iii) Alter the gas management system design in the permit to install to incorporate new or different components if the design of the gas management system is documented in the permit to install.

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This paragraph does not apply during periods of startup, shutdown, or malfunction, provided that the duration of startup, shutdown, or malfunction does not exceed five days for the gas collection and conveyance systems and does not exceed one hour for control devices.

(D) Gas control device operations. If a gas control device exists, an owner or operator shall operate the gas control device in accordance with the following:

- (1) At all times when the collected gas is conveyed to the control device.
- (2) In accordance with applicable authorizations and regulations pertaining to air pollution control.

(E) In the event a component of the gas management system is inoperable, an owner or operator shall comply with the following:

- (1) Not later than one hour after discovering the inoperable component, close all valves in the gas management system contributing to venting of the gas to the atmosphere.
- (2) Record the incident in the log of operations. The record shall contain a description of any response or corrective actions taken and the effectiveness of the response or corrective action, including the date and time that the inoperable component was discovered and the date and time that the operation of the component resumed.

(F) Decommissioning a gas well or gas vent. An owner or operator shall decommission a gas well or gas vent in a manner that prevents infiltration of air and water into disposed material. If the gas well or gas vent penetrated the cap system, an owner or operator shall do the following:

- (1) Remove any casing to a minimum of two feet below the ground surface.
- (2) If casing remains within the cap system, cap the gas vent or gas well.
- (3) If casing remains but is no longer present within the cap system, place fill material in the remaining casing or cap the gas vent or gas well.
- (4) If all casing is removed, place fill material in the remaining borehole.
- (5) Construct cap system engineered components in the area of the penetration to maintain the continuity of the cap system.
- (6) Submit a construction certification report prepared in accordance with rules 3745-520-500 and 3745-512-50 of the Administrative Code for the activities required by paragraph (F) of this rule.