

3745-27-83 Gas management system operation.

For the duration of the authorization to stabilize waste through bulk liquid addition at the facility and for a minimum of three years after ceasing addition of bulk liquids, the owner or operator shall perform the following gas management system requirements in compliance with this rule.

- (A) Gas management system operations. The owner or operator shall do the following:
- (1) Commence extraction or continue to extract landfill gas from each area of the facility in which gas collection devices have been installed.
 - (2) Operate the gas management system in a manner that prevents fire and controls odors.
 - (3) Perform ongoing cover maintenance in the area designated for bulk liquid addition as needed to prevent ambient air infiltration into disposed material.
 - (4) Keep the gas management system free of liquids to the extent necessary to ensure the effectiveness of the gas management system.
- (B) Gas collection device operations. The owner or operator shall operate a gas collection device in the area designated for bulk liquid addition in accordance with the following:
- (1) Maintain negative pressure at each gas 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 landfill gas from a gas collection device placed within the waste mass, both of the following:
 - (a) The temperature of the landfill gas does not exceed one hundred thirty degrees Fahrenheit.
 - (b) Either the nitrogen concentration in the landfill gas does not exceed twenty per cent by volume or the oxygen concentration in the landfill gas does not exceed five per cent by volume.
 - (3) If monitoring indicates positive pressure during circumstances other than 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 perform the following activities:
 - (a) For positive pressure, the owner or operator shall perform the following:
 - (i) Adjust the vacuum to increase the landfill gas extracted not later than five days after the monitoring event. The owner or operator shall re-monitor the gas well not later than one calendar day after the adjustment to verify whether the exceedance continues or was corrected by the adjustment.
 - (ii) Not later than one hundred twenty days after the original monitoring event, one or more of the following if negative pressure cannot be achieved not later than fifteen calendar days after the original monitoring event, unless the monitoring event occurred during the first one hundred eighty days after gas collection system startup:

- (a) Replace the gas well or expand the gas management system.
 - (b) Upgrade the gas mover equipment, header pipe, or control device.
 - (c) If the design of the gas management system is documented in the permit to install, obtain concurrence from Ohio EPA to alter the gas management system design in the permit to install to incorporate new or different components that are capable of achieving negative pressure.
- (b) The owner or operator shall 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.
- (c) For an exceedance of a value in paragraph (B)(2) of this rule, the owner or operator shall perform the following:
- (i) Cover maintenance and maintenance around the gas collection device and connections to decrease air infiltration not later than five days after the monitoring event. The owner or operator shall re-monitor the gas collection device not later than one calendar day after performing such maintenance to determine whether the exceedance continues or was corrected by the maintenance.
 - (ii) If a gas collection device is connected to a gas mover, adjust the vacuum to decrease the landfill gas extracted not later than five days after the monitoring event. The owner or operator shall re-monitor the gas collection device not later than one calendar day after the adjustment to determine whether the exceedance continues or was corrected by the adjustment.
 - (iii) If correction of the exceedance cannot be achieved not later than fifteen calendar days after the original monitoring event, notify the appropriate district office of the Ohio EPA and the approved board of health in writing of the exceedance and the actions that the owner or operator plans to take to correct the exceedance.

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.

- (C) Gas control device operations. The owner or operator shall operate the gas control device in accordance with the following:
- (1) At all times when the collected landfill gas is conveyed to the gas control device.
 - (2) The permit to operate and applicable state and federal statutes, rules, and regulations governing air pollution control.
- (D) In the event a component of the gas management system becomes inoperable, the owner or operator shall do 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 landfill gas to the atmosphere.
 - (2) Record in the log of operations the date and time that the inoperable component was discovered and the

date and time that the component resumed operating.

- (E) Decommissioning a gas collection device in the area designated for bulk liquid addition. An owner or operator shall decommission a gas collection device in a manner that prevents infiltration of air and water into disposed material. If the gas collection device 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 in accordance with rule 3745-27-08 of the Administrative Code.

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Five Year Review (FYR) Dates: 11/03/2016 and 11/01/2021

CERTIFIED ELECTRONICALLY

Certification

01/27/2017

Date

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