

ARTICLE 19. CONFINED FEEDING OPERATIONS

Rule 1. General Provisions

327 IAC 19-1-1 Purpose

Authority: IC 13-14-8-1; IC 13-18-10-4
Affected: IC 13-11-2; IC 13-18-10; IC 13-22

Sec. 1. The purpose of this article is to:

- (1) impose construction and operational requirements for CFOs in order to implement IC 13-18-10; and
- (2) protect human health and the environment from threats to water quality.

(Water Pollution Control Division; 327 IAC 19-1-1; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)

327 IAC 19-1-2 Applicability

Authority: IC 13-14-8-1; IC 13-18-10-4
Affected: IC 13-11-2-40; IC 13-18; IC 13-22

Sec. 2. (a) This article applies to all CFOs as defined in IC 13-11-2-40.

(b) Under this article a person may not start:

- (1) construction of a CFO; or
- (2) expansion of a CFO that increases animal capacity or manure containment capacity, or both;

without obtaining the prior approval of the department.

(c) Unless otherwise stated, all requirements of this article must be met upon its effective date. *(Water Pollution Control Division; 327 IAC 19-1-2; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)*

327 IAC 19-1-3 Appeal of decisions

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 4-21.5; IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 3. A decision by the commissioner to approve, deny, revoke, amend, require an approval, or impose additional requirements under this article is appealable under IC 4-21.5. Information on appeal rights shall be provided with the documentation of the commissioner's decision. *(Water Pollution Control Division; 327 IAC 19-1-3; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)*

327 IAC 19-1-4 References to the Code of Federal Regulations

Authority: IC 4-22-2-21; IC 13-14-8; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 4-22-9-5; IC 13-15; IC 13-18-10; IC 13-30

Sec. 4. Unless otherwise indicated, any reference to the Code of Federal Regulations (CFR) in this article means the July 1, 2016, edition. *(Water Pollution Control Division; 327 IAC 19-1-4; filed Jul 12, 2017, 8:47 a.m.: 20170809-IR-327160003FRA; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)*

Rule 2. Definitions

327 IAC 19-2-1 Applicability

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 1. The definitions in IC 13-11-2 and this rule apply throughout this article. *(Water Pollution Control Division; 327 IAC*

19-2-1; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)

327 IAC 19-2-2 "Agronomic rate" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 2. "Agronomic rate" means a rate of application of manure to the land based on:

- (1) the nutrient content of the manure to be applied;
- (2) the fertility level of the soil;
- (3) the nutrient needs of the current or planned crops;
- (4) the nutrient holding capacity of the soil; and
- (5) additional sources of nutrients, including legume credits, process wastewater, biosolids, or commercial fertilizer.

(Water Pollution Control Division; 327 IAC 19-2-2; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)

327 IAC 19-2-3 "Animal feeding operation" or "AFO" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 3. "Animal feeding operation" or "AFO" means a lot or facility, other than an aquatic animal production facility, where all of the following conditions are met:

- (1) Animals, other than aquatic animals, have been, are, or will be stabled or confined and fed or maintained for a total of forty-five (45) days or more in any twelve (12) month period.
- (2) Crops, vegetation, forage growth, or post-harvest residues are not sustained in the normal growing season over at least fifty percent (50%) of the lot or facility.

(Water Pollution Control Division; 327 IAC 19-2-3; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)

327 IAC 19-2-4 "Bedrock" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 4. "Bedrock" means cemented or consolidated earth materials exposed on the earth's surface or underlying unconsolidated earth materials. (Water Pollution Control Division; 327 IAC 19-2-4; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)

327 IAC 19-2-5 "Commissioner" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2-35; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 5. "Commissioner", as defined in IC 13-11-2-35, refers to the commissioner of the department of environmental management. (Water Pollution Control Division; 327 IAC 19-2-5; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)

327 IAC 19-2-6 "Confined feeding" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2-39; IC 13-14; IC 13-15; IC 13-18; IC 13-30

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Sec. 6. (a) "Confined feeding", as defined in IC 13-11-2-39, means the confined feeding of animals for food, fur, or pleasure purposes in lots, pens, ponds, sheds, or buildings where:

- (1) animals are confined, fed, and maintained for at least forty-five (45) days during any twelve (12) month period; and
- (2) ground cover or vegetation is not sustained over at least fifty percent (50%) of the animal confinement area.

(b) The term does not include the following:

(1) A livestock market:

(A) where animals are assembled from at least two (2) sources to be publicly auctioned or privately sold on a commission basis; and

(B) that is under state or federal supervision.

(2) A livestock sale barn or auction market where animals are kept for not more than ten (10) days.

(Water Pollution Control Division; 327 IAC 19-2-6; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)

327 IAC 19-2-7 "Confined feeding operation" or "CFO" defined

Authority: IC 13-14-8; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 4-21.5; IC 13-11-2-40; IC 13-14; IC 13-15; IC 13-18-10; IC 13-30

Sec. 7. "Confined feeding operation" or "CFO", as defined in IC 13-11-2-40, means any:

(1) confined feeding of at least:

(A) three hundred (300) cattle;

(B) six hundred (600) swine or sheep;

(C) thirty thousand (30,000) fowl; or

(D) five hundred (500) horses;

(2) AFO electing to be subject to IC 13-18-10; or

(3) AFO that is causing a violation of:

(A) water pollution control laws;

(B) any rules of the board; or

(C) IC 13-18-10.

A determination by the department under this subdivision is appealable under IC 4-21.5.

(Water Pollution Control Division; 327 IAC 19-2-7; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA; filed Sep 6, 2018, 11:50 a.m.: 20181003-IR-327170278FRA)

327 IAC 19-2-8 "Constructed wetland" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 4-21.5; IC 13-11-2-40; IC 13-14; IC 13-15; IC 13-18-10; IC 13-30

Sec. 8. "Constructed wetland" means an approved waste management system designed to maximize the removal of pollutants from process wastewater or other runoff through wetland vegetation uptake, retention, and settling. *(Water Pollution Control Division; 327 IAC 19-2-8; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)*

327 IAC 19-2-9 "Construction" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-11-2-40.8; IC 13-14; IC 13-15; IC 13-18-10; IC 13-30

Sec. 9. "Construction", as defined in IC 13-11-2-40.8, for purposes of IC 13-18-10, means the fabrication, erection, or installation of a facility or manure control equipment at the location where the facility or manure control equipment is intended to be used. The term does not include the following:

- (1) The dismantling of existing equipment and control devices.

- (2) The ordering of equipment and control devices.
- (3) Off-site fabrication.
- (4) Site preparation.

(Water Pollution Control Division; 327 IAC 19-2-9; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)

327 IAC 19-2-10 "Contaminated runoff" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 10. "Contaminated runoff" means any precipitation or surface water that has come into contact with any liquid or solid animal excreta or any used bedding, litter, or waste liquid at the CFO. *(Water Pollution Control Division; 327 IAC 19-2-10; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)*

327 IAC 19-2-11 "Department" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2-51; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 11. "Department", as defined in IC 13-11-2-51, refers to the department of environmental management. *(Water Pollution Control Division; 327 IAC 19-2-11; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)*

327 IAC 19-2-12 "Discharge" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 12. "Discharge", for purposes of this article, means any addition of any pollutant, or combination of pollutants, into any waters of the state from a point source. The term includes, without limitation, an addition of a pollutant into any waters of the state from the following:

- (1) Surface runoff that is collected or channeled by human activity.
- (2) Discharges through pipes, sewers, or other conveyances, including natural channels, that do not lead to treatment works.

(Water Pollution Control Division; 327 IAC 19-2-12; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)

327 IAC 19-2-13 "Drainage inlet" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 13. "Drainage inlet" means any surficial opening to an underground tile drainage system that drains to waters of the state. For purposes of this article, the term includes water and sediment control basins. *(Water Pollution Control Division; 327 IAC 19-2-13; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)*

327 IAC 19-2-14 "Feedlot" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 14. "Feedlot" means an outside lot or pen used for confined feeding, including areas that may be covered, partially

covered, or uncovered. (*Water Pollution Control Division; 327 IAC 19-2-14; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-2-15 "Filter strip" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 15. "Filter strip" means a relatively uniform and maintained vegetated area used for collecting sediment and cleansing runoff. (*Water Pollution Control Division; 327 IAC 19-2-15; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-2-16 "Flood plain" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 16. "Flood plain" means any area adjoining a river, stream, or lake that has been or may be covered by a one hundred (100) year flood. (*Water Pollution Control Division; 327 IAC 19-2-16; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-2-17 "Floodway" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 17. "Floodway" means the channel of a river or stream and those portions of the flood plain adjoining the channel that are reasonably required to efficiently carry and discharge the peak flood flow of a one hundred (100) year flood as determined by 312 IAC 10. (*Water Pollution Control Division; 327 IAC 19-2-17; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-2-18 "Gradient barrier" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 18. "Gradient barrier" means a structure or feature that prevents runoff from entering waters of the state. (*Water Pollution Control Division; 327 IAC 19-2-18; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-2-19 "Ground water" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 19. "Ground water" means accumulations of underground water, natural or artificial, public and private, or parts thereof, that are wholly or partially within, flow through, or border upon this state, but excluding man-made underground storage or conveyance structures. (*Water Pollution Control Division; 327 IAC 19-2-19; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-2-20 "Highly erodible land" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 20. "Highly erodible land" means land that has a high potential to erode based on site-specific characteristics, such as:

- (1) slope length and steepness;
- (2) soil erodibility; and
- (3) rainfall;

as defined by the USDA-NRCS and Farm Service Agency maps. (*Water Pollution Control Division; 327 IAC 19-2-20; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-2-21 "Historic site" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30; IC 14-8-2-125

Sec. 21. "Historic site", as defined in IC 14-8-2-125, means a site that is important to the general, archeological, agricultural, economic, social, political, architectural, industrial, or cultural history of Indiana. The term includes adjacent property that is necessary for the preservation or restoration of the site. (*Water Pollution Control Division; 327 IAC 19-2-21; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-2-22 "Incorporation" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 22. "Incorporation" means the mixing of liquid or solid manure with the surface soil using standard agricultural practices, such as tillage. (*Water Pollution Control Division; 327 IAC 19-2-22; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-2-23 "Injection" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 23. "Injection" means the placement of liquid manure beneath the surface of the soil in the crop root zone using equipment specifically designed for this purpose. (*Water Pollution Control Division; 327 IAC 19-2-23; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-2-24 "Karst terrain" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 24. "Karst terrain" means an area where karst topography, including the characteristic surface and subterranean features, has developed as the result of dissolution of limestone, dolomite, or other soluble rock. Characteristic physiographic features present in karst terrains include the following:

- (1) Sinkholes.
- (2) Sinking streams.
- (3) Caves.
- (4) Large springs.
- (5) Blind valleys.

(*Water Pollution Control Division; 327 IAC 19-2-24; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-2-25 "Manure" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 25. "Manure", as defined in IC 13-11-2-126.5, means the following:

- (1) Liquid or solid animal excreta.
- (2) Waste liquid generated at a livestock or poultry production area, including the following:
 - (A) Excess drinking water.
 - (B) Cleanup water.
 - (C) Contaminated livestock truck or trailer washwater.
 - (D) Milking parlor wastewater.
 - (E) Milk house washwater.
 - (F) Egg washwater.
 - (G) Silage leachate.
- (3) Any precipitation or surface water that has come into contact with the following:
 - (A) Liquid or solid animal excreta.
 - (B) Used bedding.
 - (C) Litter.
 - (D) Liquid described in subdivision (4).
- (4) Any other materials generated at a livestock or poultry production area commingled with the materials listed in subdivisions (1) through (3).

(Water Pollution Control Division; 327 IAC 19-2-25; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)

327 IAC 19-2-26 "Manure application" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 26. "Manure application" means the placement of liquid or solid manure by:

- (1) spraying or spreading onto the land surface;
- (2) injection below the land surface; or
- (3) incorporation into the soil.

(Water Pollution Control Division; 327 IAC 19-2-26; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)

327 IAC 19-2-27 "Manure release" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 27. "Manure release" means any unexpected, unintended, abnormal, or unapproved dumping, leakage, drainage, seepage, discharge, or other loss of manure outside of an approved waste management system and not in compliance with 327 IAC 19-14. *(Water Pollution Control Division; 327 IAC 19-2-27; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)*

327 IAC 19-2-28 "Manure storage facility" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 28. "Manure storage facility" means any:

- (1) pad;
- (2) pit;
- (3) pond;
- (4) lagoon;
- (5) tank;
- (6) building; or
- (7) manure containment area;

used to store or treat manure, including any portions of buildings used specifically for manure storage or treatment. (*Water Pollution Control Division; 327 IAC 19-2-28; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-2-29 "Manure transfer system" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 29. "Manure transfer system" means any:

- (1) pipes;
- (2) lift stations;
- (3) pumps;
- (4) channels; or
- (5) other stationary devices;

used for the transfer of manure. (*Water Pollution Control Division; 327 IAC 19-2-29; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-2-30 "Manure transfer vehicle" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 30. "Manure transfer vehicle" means a vehicle, tank, or wagon used to move manure. (*Water Pollution Control Division; 327 IAC 19-2-30; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-2-31 "Operating record" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 31. "Operating record" means the written record of the CFO activities required by this article and kept by the owner/operator. (*Water Pollution Control Division; 327 IAC 19-2-31; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-2-32 "Owner/operator" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 32. "Owner/operator" means the person:

- (1) that owns the waste management systems at the CFO;
- (2) that:
 - (A) owns the livestock at the CFO; and
 - (B) applies for or has received an approval under this article; or

(3) in direct or responsible charge or control of one (1) or more CFOs or land application activity.
(*Water Pollution Control Division; 327 IAC 19-2-32; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-2-33 "Process wastewater" defined

Authority: IC 13-14-8; IC 13-14-9; IC 13-15-1-2; IC 13-15-2-1; IC 13-18-3
Affected: IC 13-11-2; IC 13-18-4

Sec. 33. (a) "Process wastewater" means water directly or indirectly used in the operation of the AFO for any or all of the following:

- (1) Spillage or overflow from animal or poultry watering systems.
- (2) Washing, cleaning, or flushing any of the following:
 - (A) Pens.
 - (B) Barns.
 - (C) Manure pits.
 - (D) Other AFO facilities.

- (3) Direct contact swimming, washing, or spray cooling of animals.
- (4) Dust control at the production area.

(b) The term includes any water that comes into contact with or is a constituent of any raw materials, products, or byproducts, including the following:

- (1) Manure.
- (2) Litter.
- (3) Feed.
- (4) Milk.
- (5) Eggs.
- (6) Bedding.

(*Water Pollution Control Division; 327 IAC 19-2-33; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-2-34 "Production area" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 34. "Production area" means that part of an AFO that includes the animal confinement area, the manure storage area, the raw materials storage area, and the waste containment areas. The animal confinement area includes, but is not limited to, open lots, housed lots, feedlots, confinement houses, stall barns, free stall barns, milkrooms, milking centers, cowyards, barnyards, medication pens, walkers, animal walkways, and stables. The manure storage area includes, but is not limited to, lagoons, runoff ponds, storage sheds, stockpiles, under house or pit storages, liquid impoundments, static piles, and composting piles. The raw materials storage area includes, but is not limited to, feed silos, silage bunkers, and bedding materials. The waste containment area includes, but is not limited to, settling basins, and areas within berms and diversions that separate uncontaminated storm water. The term includes any egg washing or egg processing facility, and any area used in the storage, handling, treatment, or disposal of mortalities. (*Water Pollution Control Division; 327 IAC 19-2-34; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-2-35 "Public water supply surface intake structure" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 35. "Public water supply surface intake structure" means any structure used for the purpose of withdrawing surface water

for use in a public water supply system. (*Water Pollution Control Division; 327 IAC 19-2-35; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-2-36 "Public water supply well" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 36. "Public water supply well" means any well that provides water to the public through a water distribution system that:

(1) serves at least twenty-five (25) persons per day for:

- (A) drinking;
- (B) domestic use; or
- (C) other purposes; or

(2) has at least fifteen (15) service connections.

(*Water Pollution Control Division; 327 IAC 19-2-36; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-2-37 "Registered professional engineer" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30; IC 25-31

Sec. 37. "Registered professional engineer" means a professional engineer registered by the state under IC 25-31. (*Water Pollution Control Division; 327 IAC 19-2-37; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-2-38 "Saturated ground" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30; IC 25-31

Sec. 38. "Saturated ground" means ground that cannot absorb any more liquid. (*Water Pollution Control Division; 327 IAC 19-2-38; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-2-39 "Sensitive area" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30; IC 14-31; IC 14-38-1-5

Sec. 39. "Sensitive area" means a site where conditions exist that pose a specific water quality threat to one (1) or more of the following:

- (1) Aquifers used as a source of drinking water.
- (2) Public water supply wells.
- (3) Wellhead protection areas.
- (4) Drinking water supply reservoirs.
- (5) Areas requiring special protection, such as:
 - (A) wetlands, except for wetlands constructed for manure management;
 - (B) karst terrains;
 - (C) the critical habitat of an endangered species; or
 - (D) natural areas, including:
 - (i) parks;
 - (ii) nature preserves, as regulated under IC 14-31;

- (iii) historic sites, as defined in section 21 of this rule; and
- (iv) public lands, as defined in IC 14-38-1-5.

(Water Pollution Control Division; 327 IAC 19-2-39; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)

327 IAC 19-2-40 "Site preparation" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 40. "Site preparation" means any of the following:

- (1) Demolition or wrecking of buildings or other structures.
- (2) Clearing of building sites.
- (3) Sale of materials from demolished structures.
- (4) Blasting.
- (5) Test drilling.
- (6) Earthmoving.
- (7) Excavating.
- (8) Land drainage.
- (9) Placement of access lanes or driveways.
- (10) Installation of utilities.
- (11) Staking or flagging.

(Water Pollution Control Division; 327 IAC 19-2-40; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)

327 IAC 19-2-41 "Spill" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 41. "Spill" has the meaning set forth in 327 IAC 2-6.1-4(15). *(Water Pollution Control Division; 327 IAC 19-2-41; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)*

327 IAC 19-2-42 "Spray irrigation" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 42. "Spray irrigation" means the application of manure on the land through a stationary or mobile sprinkler type system. *(Water Pollution Control Division; 327 IAC 19-2-42; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)*

327 IAC 19-2-43 "Staging" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 43. "Staging" means the temporary placement of manure at a site other than a production area. *(Water Pollution Control Division; 327 IAC 19-2-43; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)*

327 IAC 19-2-44 "Surface application" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 44. "Surface application" means the placement of manure by spraying or spreading onto the land surface. (*Water Pollution Control Division; 327 IAC 19-2-44; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-2-45 "Surface water" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 45. "Surface water" means waters present on the surface of the earth, including:

- (1) streams;
- (2) lakes;
- (3) ponds;
- (4) rivers;
- (5) swamps;
- (6) marshes; or
- (7) wetlands.

(*Water Pollution Control Division; 327 IAC 19-2-45; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-2-46 "Uncovered" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 46. "Uncovered" means any structure that allows exposure of manure to precipitation events or to the run-on or runoff from precipitation events. (*Water Pollution Control Division; 327 IAC 19-2-46; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-2-47 "Vegetative management system" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 47. "Vegetative management system" means a vegetated area designed to accept contaminated runoff or waste liquid after settling for the purpose of treatment or infiltration into the soil. (*Water Pollution Control Division; 327 IAC 19-2-47; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-2-48 "Waste management system" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 48. "Waste management system" means any approved method of managing manure or process wastewater at the CFO, including:

- (1) manure storage facilities;
- (2) manure transfer systems;
- (3) manure treatment systems, such as a:

- (A) constructed wetland;
- (B) vegetative management system; or
- (C) wastewater treatment system under a valid national pollutant discharge elimination system (NPDES) permit;
- (4) feedlots;
- (5) confinement buildings; or
- (6) waste liquid handling, storage, and treatment systems.

(Water Pollution Control Division; 327 IAC 19-2-48; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)

327 IAC 19-2-49 "Waters" defined

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-11-2-265; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 49. (a) "Waters", as defined in IC 13-11-2-265, means:

- (1) the accumulations of water, surface and underground, natural and artificial, public and private; or
- (2) a part of the accumulations of water;

that are wholly or partially within, flow through, or border upon Indiana.

(b) The term does not include:

- (1) an exempt isolated wetland;
- (2) a private pond; or
- (3) an off-stream pond, reservoir, wetland, or other facility built for reduction or control of pollution or cooling of water before discharge.

(c) The term includes all waters of the United States, as defined in Section 502(7) of the federal Clean Water Act (33 U.S.C. 1362(7)), that are located in Indiana. *(Water Pollution Control Division; 327 IAC 19-2-49; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)*

Rule 3. Performance Standards

327 IAC 19-3-1 Performance standards

Authority: IC 13-14-8-1; IC 13-18-10-4

Affected: IC 13-11-2; IC 13-18; IC 13-22

Sec. 1. (a) A CFO shall be managed so as to avoid an unpermitted discharge into waters of the state.

(b) A CFO must be constructed and operated in a manner that minimizes nonpoint source pollution entering waters of the state.

(c) A CFO shall take all reasonable steps to prevent manure releases, spills or the discharge of manure in violation of the approval or this article, including seepage and leakage.

(d) All waste management systems must be designed, constructed, and maintained to minimize leaks and seepage and prevent manure releases or spills, as well as ensure compliance with the water quality standards in 327 IAC 2.

(e) Manure must be staged in such a manner as to:

(1) not threaten or enter waters of the state;

(2) prevent:

- (A) runoff;
- (B) manure releases; and
- (C) spills.

(f) Manure must be applied in such a manner as to:

(1) not threaten or enter waters of the state;

(2) prevent:

- (A) ponding for more than twenty-four (24) hours;

- (B) manure releases; and
- (C) spills; and

(3) minimize nutrient leaching beyond the root zone.

(Water Pollution Control Division; 327 IAC 19-3-1; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)

Rule 4. General Approval Conditions

327 IAC 19-4-1 Approval conditions

Authority: IC 13-14-8-1; IC 13-18-10-4

Affected: IC 13-11-2; IC 13-18; IC 13-22

Sec. 1. (a) CFOs must:

- (1) have a valid approval to operate; or
- (2) close in accordance with 327 IAC 19-16.

(b) The following conditions apply to all confined feeding approvals:

- (1) The owner/operator must comply with all terms and conditions of the approval and this article.
- (2) The owner/operator shall take all reasonable steps to prevent, minimize, or correct any adverse impact on the environment resulting from noncompliance with the approval or this article.
- (3) The filing by the owner/operator of a request for an approval amendment, revocation and reissuance, or revocation does not stay or suspend any approval term or condition. The approval may be amended, revoked and reissued, or revoked for causing or threatening to cause harm to the environment.
- (4) The approval does not convey any property rights of any sort or any exclusive privilege.
- (5) The owner/operator shall allow the commissioner, or an authorized representative (including an authorized contractor acting as a representative of the commissioner), upon the presentation of credentials and in compliance with biosecurity procedures developed by the department in consultation with the Indiana state board of animal health or individual owners/operators as defined in 327 IAC 19-2-32 to:

(A) enter upon the CFO premises or where any records must be kept under the terms and conditions of the approval or this article;

(B) have access for review to any records that must be kept under the terms and conditions of the approval;

(C) inspect, at reasonable times:

- (i) any monitoring equipment or method;
- (ii) any waste management systems; or
- (iii) practices required or otherwise regulated under the approval; and

(D) sample or monitor, at reasonable times, for the purpose of evaluating compliance with the approval or state and federal laws and regulations.

(6) The provisions of this approval are severable and, if any provision of the approval or the application of any provision of the approval to any circumstances is held invalid, the application of such provision to other circumstances and the remainder of this approval shall not be affected thereby.

(c) If determined to be necessary to protect human health or the environment, the commissioner may require additional protective measures such as:

- (1) alternate design standards;
- (2) alternate operational requirements; or
- (3) use of a registered professional engineer.

The commissioner shall provide written documentation describing the basis for this determination. *(Water Pollution Control Division; 327 IAC 19-4-1; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)*

Rule 5. Alternate Design or Compliance Approach; Innovative Technology

327 IAC 19-5-1 Alternate design or compliance approach; innovative technology

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 1. (a) The use of a design or compliance approach other than the requirement specified in this article, or an innovative technology may be proposed by the owner/operator in accordance with the following:

(1) The proposal for the alternative design or compliance approach, or innovative technology must be accompanied by documentation that indicates that the performance standards in 327 IAC 19-3-1 will be met. The alternative design or compliance approach, or innovative technology must comply with all existing environmental rules and laws.

(2) The proposed design or compliance approach, or innovative technology must be incorporated into the approval.

(b) In making a determination on an alternate design or compliance approach, or innovative technology, the commissioner shall consider applicable criteria that may include the following:

(1) Design specifications that indicate adequate structural integrity.

(2) Protective measures that reduce the potential for manure releases and spills.

(3) The existence of barriers or surface gradient that directs liquid flow away from features specified for protection.

(4) Operational practices that provide additional protection.

(5) Threats of adverse impacts to water quality or other specified sensitive areas.

(6) Other criteria related to protection of the environment or human health.

(c) The commissioner shall provide written documentation describing the basis for the approval or denial of the proposed alternate design, compliance approach, or innovative technology. (*Water Pollution Control Division; 327 IAC 19-5-1; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

Rule 6. Existing Confined Feeding Operations

327 IAC 19-6-1 Existing confined feeding operations

Authority: IC 13-14-8; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-15; IC 13-18-10-1; IC 13-30

Sec. 1. (a) All CFOs must be maintained and operated in compliance with all applicable:

(1) state laws; and

(2) approval conditions.

(b) The owner/operator of a CFO with an existing approval before the effective date of this article shall comply with the following requirements by the effective date of this article:

(1) Operational requirements in 327 IAC 19-13, except the owner/operator shall comply with 327 IAC 19-13-4 within ninety (90) days of the effective date of this article.

(2) Manure application requirements in 327 IAC 19-14.

(3) Manure management plan requirements in 327 IAC 19-7-5.

(4) Closure requirements in 327 IAC 19-16.

(c) An approval amendment is required for an increase in the amount of manure generated that reduces the storage capacity to less than the required storage capacity at the time of the most recent approval.

(d) Any increase in animal capacity or manure containment capacity requires a new application under IC 13-18-10-1 and the requirements therein.

(e) A facility that becomes a regulated CFO after the effective date of this article that contains existing waste management systems not previously regulated under this title may be required to modify them to meet the requirements of this article if necessary to protect human health and the environment. The commissioner shall provide written documentation describing the basis for any modifications. (*Water Pollution Control Division; 327 IAC 19-6-1; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; filed Jul 12, 2017, 8:47 a.m.: 20170809-IR-327160003FRA; errata filed Jul 31, 2017, 11:06 a.m.: 20170809-IR-327170349ACA; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

Rule 7. Application Requirements

327 IAC 19-7-1 Application requirements

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-11-2; IC 13-14; IC 13-15-8; IC 13-18-10-2; IC 13-18-10-2.1; IC 13-30; IC 25-17.6

Sec. 1. (a) An application under this rule is required for all CFOs not previously regulated under:

- (1) this article;
- (2) 327 IAC 16 before its repeal; or
- (3) 327 IAC 5 or 327 IAC 15 before their repeal.

(b) Three (3) copies of the application package, one (1) of which may be electronic, for an approval of a CFO must be submitted to the commissioner in a format specified by the department.

(c) A complete application package must include all of the following information:

- (1) A completed application on forms provided by the department.
- (2) A plot map as described in section 2 of this rule.
- (3) A farmstead plan as described in section 3 of this rule.
- (4) A waste management system drawing as described in section 4 of this rule.
- (5) A manure management plan as described in section 5 of this rule.
- (6) Soil and water table information from test holes for proposed manure storage facilities that are conducted by a soil scientist registered under the Indiana board of registration for soil scientists, a professional geologist certified in Indiana under IC 25-17.6, or a professional engineer registered in Indiana. The number of test holes must be sufficient to adequately characterize the seasonal water table and soil. Test holes for concrete manure storage facilities must be at least two (2) feet below the base of the structure. If the manure storage facility is earthen, test holes must be:

(A) placed at a rate of two (2) holes for the first acre of storage and one (1) additional hole for each additional half acre of storage;

(B) evenly distributed throughout the storage structure;

(C) at least five (5) feet below the base of the structure for non-karst areas; or

(D) in accordance with 327 IAC 19-12-2(b)(3) in areas of karst terrain.

(7) A description of any proposed alternative to a specific requirement in this article to demonstrate equivalent environmental and human health protection in accordance with 327 IAC 19-5.

(8) A list of potentially affected parties, which includes those described in IC 13-18-10-2 and IC 13-15-8-2.

(9) A fee of one hundred dollars (\$100), in accordance with IC 13-18-10-2(a)(5).

(10) Other plans or supplemental information that may be required by the commissioner to ensure compliance with this article. The commissioner shall provide written documentation of the basis for requiring any other plans or supplemental information.

(11) A statement affirming that AFOs adjacent to or contiguous with the CFO are not under common ownership or control of the applicant.

(12) Copies of any written waivers related to reduction of setback distances.

(13) Copies of all land use agreements as described in 327 IAC 19-14-2(b).

(d) Existing CFOs that are expanding must also provide a certification on a form provided by the department that enough acreage exists for land application. This certification must include any information provided to demonstrate that a smaller amount of acreage can be used under 327 IAC 19-14-2(c). This certification must be submitted in writing to the department. (*Water Pollution Control Division; 327 IAC 19-7-1; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-7-2 Plot maps

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 2. (a) The applicant shall submit plot maps of the location proposed for approval consisting of the following:

- (1) A United States Department of Agriculture Natural Resources Conservation Service soil survey map.
- (2) A United States Geological Survey topographical map that includes identification of any public water supply wells and public water supply surface intake structures within one thousand (1,000) feet of the manure storage facilities.
- (b) The maps in subsection (a) must be legible and clearly show the following:
 - (1) The location of the waste management systems.
 - (2) The boundaries of the property of the CFO.
 - (3) The boundaries of livestock and poultry production areas.
 - (4) The boundaries and owners of all manure application areas.
 - (5) Available acreage for manure application after calculation of setbacks.

These maps will satisfy the requirement for maps under section 5(a)(3) of this rule. (*Water Pollution Control Division; 327 IAC 19-7-2; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-7-3 Farmstead plan

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 3. (a) A farmstead plan must show all existing and proposed structures, including the most recent construction approval dates for all existing structures and, within five hundred (500) feet of the waste management systems, the following known features:

- (1) Surface waters of the state.
- (2) Public and private roads.
- (3) Water well locations.
- (4) Characteristics of karst terrain.
- (5) Production area surface drainage patterns.
- (6) Property boundary line.
- (7) All outfalls of known subsurface drainage structures, including perimeter drain outfalls.
- (8) Drainage inlets, including water and sediment control basins.
- (9) Mortality management sites.
- (10) Any residence.

(b) In addition to the information required in subsection (a), the farmstead plan must show the diversion of uncontaminated surface water.

(c) The farmstead plan must also show the type and number of animals per structure.

(d) The farmstead plan must be legible and either:

- (1) drawn to approximate scale; or
- (2) show specific distances between the:
 - (A) waste management systems; and
 - (B) features in subsection (a) that are within five hundred (500) feet of the existing or proposed waste management system.

(e) The farmstead plan must contain reference to true north.

(f) The farmstead plan must indicate any part of the CFO that is in a one hundred (100) year flood plain.

(g) The plan must be submitted on paper not less than eight and one-half (8 1/2) inches by eleven (11) inches in size and not more than twenty-four (24) inches by thirty-six (36) inches in size. (*Water Pollution Control Division; 327 IAC 19-7-3; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-7-4 Waste management system drawing

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 4. The waste management system drawing must show detailed views and necessary cross sections to define all dimensions and construction materials. Systems relying on gravity flow must provide elevations of the entire waste management system that relies on gravity. (*Water Pollution Control Division; 327 IAC 19-7-4; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-7-5 Manure management plan

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 5. (a) A manure management plan must be developed and submitted to the commissioner that contains the following:

- (1) Procedures for soil testing as described in subsection (c).
- (2) Procedures for manure testing as described in subsection (d).
- (3) Plot maps as described in section 2(a)(1) and 2(b) of this rule.
- (4) If applicable, the land application acreage requirements waiver, as described in 327 IAC 19-14-2(d).

(b) If applicable, the manure management plan must also contain a description of any:

- (1) alternate methods proposed by the applicant for managing of the manure; and
- (2) other practices to be used that assure the CFO meets the performance standards in this article.

(c) A soil test must be obtained that provides sufficient information about soil fertility to allow for nutrient recommendations for existing or planned crops. Soil tests may not represent more than twenty (20) acres per sample. The frequency of this testing must be:

- (1) specified in the manure management plan; and
- (2) conducted a minimum of once every four (4) years unless a different frequency is approved by the department in writing and is included in the manure management plan.

(d) A manure test must be obtained that provides sufficient information about the manure content to allow for nutrient recommendations for existing or planned crops and to minimize nutrient leaching. The frequency of this testing must be:

- (1) specified in the manure management plan; and
- (2) conducted a minimum of once every year.

(e) Manure samples must be representative of the manure that is land applied. If manure is mixed from separate manure storage facilities prior to land application, a composite sample may be taken. If manure is land applied from separate and distinct storage facilities, a sample must be taken from each unique production system.

(f) A manure management plan must be submitted to the department at least one (1) time every five (5) years and with any approval application and renewal application to maintain a valid approval for the CFO. A copy of the current manure management plan must be maintained in the operating record. (*Water Pollution Control Division; 327 IAC 19-7-5; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-7-6 Mortality management

Authority: IC 13-13-5-1; IC 13-15-1-2; IC 13-15-2-1

Affected: IC 13-18-10; IC 15-17-11

Sec. 6. (a) CFOs must carry out proper management of dead livestock as required by 345 IAC 7-7 to ensure that there shall be:

- (1) no discharge of mortality or liquids that have been in contact with mortality to waters of the state; and
- (2) no disposal in a manure storage facility that is not specifically designed to treat animal mortalities.

(b) Mortality composting sites must meet all of the following criteria:

(1) Be constructed and operated:

(A) to prevent:

- (i) leaching, either through the use of earthen compaction or a concrete pad; and
- (ii) run-on and runoff of storm water; and

(B) in accordance with IC 15-17-11.

(2) Comply with setbacks listed in 327 IAC 19-12-3.

(Water Pollution Control Division; 327 IAC 19-7-6; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)

Rule 8. Approval Process

327 IAC 19-8-1 Duration of approvals

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 1. An approval shall be effective for a fixed term. That term begins when the approval is issued and is not to exceed five (5) years. An approval may be amended, revoked and reissued, or revoked prior to the expiration of the term for cause, as specified in sections 3 and 5 of this rule, or in accordance with conditions set forth in the approval. In no event may the term of an approval be extended beyond five (5) years from its original effective date by amendment, extension, or other means, except as provided in section 2(a) of this rule. *(Water Pollution Control Division; 327 IAC 19-8-1; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)*

327 IAC 19-8-2 Approval renewals

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 4-21.5; IC 13-11-2; IC 13-14; IC 13-15; IC 13-30-3

Sec. 2. (a) If the owner/operator wishes to continue the activity regulated by the approval after the expiration date of the approval, the owner/operator shall apply for and obtain an approval renewal. The terms and conditions of an expired approval are automatically extended in full force and effect until the effective date of a renewal, if the:

(1) owner/operator has submitted a timely and complete application for an approval renewal under this article at least thirty (30) days prior to the expiration of the approval; and

(2) commissioner, through no fault of the owner/operator, does not issue an approval renewal prior to the expiration date of the previous approval.

(b) The application for approval renewal must be on a form provided by the department and contain the following:

(1) An updated manure management plan in accordance with 327 IAC 19-7-5.

(2) A current farmstead plan, as described in 327 IAC 19-7-3.

(3) A minimum number of acres for manure application, as described in 327 IAC 19-14-2(a).

(c) The approval renewal required under subsection (b) must be submitted at least thirty (30) days prior to the expiration of the approval. Approval renewals shall be issued for a fixed term not to exceed five (5) years from when the previous permit expires. *(Water Pollution Control Division; 327 IAC 19-8-2; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)*

327 IAC 19-8-3 Amendments and notifications

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-11-2; IC 13-14; IC 13-15-7-1; IC 13-18-10-2.1; IC 13-30

Sec. 3. (a) The department may issue amendments to approvals of a CFO at any time:

(1) under IC 13-18-10-2.1(i);

(2) at the request of the applicant to address changes at the CFO that do not require a new approval; or

(3) due to an increase in the amount of manure generated that reduces the storage capacity to less than the required storage capacity at the time of the most recent approval.

(b) The owner/operator must submit written notification to the department of any changes to the operation as approved. The department will review the changes and decide if amendments are necessary. At any time the department may decide an amendment is necessary, and the owner/operator must comply with the amended approval. *(Water Pollution Control Division; 327*

IAC 19-8-3; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)

327 IAC 19-8-4 Denials

Authority: IC 13-14-8; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-15; IC 13-18-10-2.1; IC 13-30

Sec. 4. The commissioner may deny an approval application or place conditions on an approval if:

(1) the CFO is, at the time of the approval application or approval decision, not in compliance with:

- (A) all current approval conditions or compliance requirements;
- (B) IC 13-18; or
- (C) this article;

(2) the application is not on a form provided by the department or does not meet the requirements of this article; or

(3) a complete application has not been submitted after receipt of two (2) notices of the same deficiency on the new or renewal application;

or as provided in IC 13-18-10-2.1. *(Water Pollution Control Division; 327 IAC 19-8-4; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; filed Jul 12, 2017, 8:47 a.m.: 20170809-IR-327160003FRA; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)*

327 IAC 19-8-5 Revocation

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18-10; IC 13-30-3-11

Sec. 5. (a) The commissioner may revoke an approval or a condition of an approval as a result of a violation of:

- (1) water pollution control laws;
- (2) rules adopted under the water pollution control laws;
- (3) IC 13-18-10;
- (4) this article; or
- (5) approval conditions.

(b) The commissioner may revoke an approval or condition or modify the terms of an approval through an order of the commissioner under IC 13-30-3-11.

(c) The commissioner shall provide written documentation of the basis for revoking an approval or a condition of an approval.

(d) Revocation of approval may happen at any time a violation is discovered, regardless of when the violation actually occurred. *(Water Pollution Control Division; 327 IAC 19-8-5; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)*

327 IAC 19-8-6 Transferability

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4
Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 6. (a) When ownership of a CFO is transferred, the parties completing the transaction shall request transfer of the approval from the department. This request must include a written agreement that is submitted to the commissioner within ninety (90) days of the transfer and must contain the following:

- (1) A specific date for transfer of approval responsibilities.
- (2) Identification of responsibility for any violations existing at the time of the transfer.
- (b) Failure to comply with subsection (a) shall result in the following:
 - (1) Revocation of the existing CFO approval and possible penalties for operating without a valid approval.
 - (2) The necessity of the new owner/operator to submit an application for a new approval under 327 IAC 19-7-1.

CONFINED FEEDING OPERATIONS

(Water Pollution Control Division; 327 IAC 19-8-6; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)

327 IAC 19-8-7 Public comment periods and notifications

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18-10-1; IC 13-30

Sec. 7. (a) An applicant who applies for approval under IC 13-18-10-1 to construct or expand a CFO on land for which a valid existing approval has not been issued shall make a reasonable effort to provide notice not more than ten (10) working days after submitting an application:

- (1) to the county executive of the county in which the CFO is to be located or expanded; and
- (2) to each owner and each occupant of land of which any part of the boundary is one-half (1/2) mile or less from the following:

(A) Any part of the proposed footprint of either or both of the following to be located on the land on which the CFO is to be located:

- (i) A livestock or poultry production structure.
- (ii) A permanent manure storage facility.

(B) Any part of the proposed footprint of either or both of the following to be located on the land on which the CFO is to be expanded:

- (i) A livestock or poultry production structure.
- (ii) The expanded area of a livestock or poultry production structure.

The notice must be completed on forms provided or approved by the commissioner, sent by mail, be in writing, include the date on which the application was submitted to the department, and include a brief description of the subject of the application. The notice must also include the dates comments will be accepted by the department in subsection (b). The applicant shall pay the cost of complying with this subsection. The applicant shall submit an affidavit to the department that certifies that the applicant has complied with this subsection, as well as submit a copy of the state form to the department that was sent to persons in this subsection.

(b) The department shall accept written comments for a thirty-three (33) day period following the date of mailing of the notice required under subsection (a).

(c) A public meeting on an approval application may be held at the commissioner's discretion in appropriate cases where environmental concerns relevant to applicable rules or laws are raised. *(Water Pollution Control Division; 327 IAC 19-8-7; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)*

Rule 9. Operating Record

327 IAC 19-9-1 Requirements

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18-10; IC 13-30

Sec. 1. (a) All valid approvals, amendments, renewals, and notifications relevant to the approvals must be:

- (1) added to the operating record in accordance with required time frames established in this article and IC 13-18-10; and
- (2) maintained and updated in the operating record.

(b) The operating record must also contain all records from the following, if applicable:

- (1) 327 IAC 19-7-1(c) and 327 IAC 19-7-1(d), all requirements within the current version of the complete application.
- (2) 327 IAC 19-7-3, the farmstead plan.
- (3) 327 IAC 19-7-5, the manure management plan.
- (4) 327 IAC 19-10, a ground water monitoring plan.
- (5) 327 IAC 19-11-2(c), the storm water management certification.

- (6) 327 IAC 19-12-4(d), certification by a registered professional engineer.
- (7) 327 IAC 19-12-4(r) and 327 IAC 19-12-4(s), regarding construction requirements.
- (8) 327 IAC 19-13-1(f), regarding completed self-monitoring records for five (5) years.
- (9) 327 IAC 19-13-4, the current emergency response plan, and documentation of any spill response implemented by CFO personnel within the past five (5) years.
- (10) Updated calculation of minimum acreage required to meet land application requirements under 327 IAC 19-14-2(a), and copies of all land use agreements described in 327 IAC 19-14-2(b).
- (11) 327 IAC 19-14-3(b), justification of nitrogen losses.
- (12) 327 IAC 19-14-3(f), regarding land application records for five (5) years.
- (13) 327 IAC 19-14-4(h), regarding emergency land application of manure.
- (14) 327 IAC 19-14-5, a spray irrigation plan.
- (15) 327 IAC 19-14-6(d), regarding land application monitoring activities.
- (16) 327 IAC 19-14-7(c), regarding marketing and distribution records for five (5) years.
- (17) Documentation of maintenance activities on liquid manure storage facilities.
- (18) Copies of any written waivers related to reduction of the set back distances.
- (19) All required permits issued by the department.

(Water Pollution Control Division; 327 IAC 19-9-1; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)

Rule 10. Ground Water Monitoring

327 IAC 19-10-1 Ground water monitoring

Authority: IC 13-13-5-1; IC 13-15-1-2; IC 13-15-2-1

Affected: IC 13-18-10

Sec. 1. (a) Ground water monitoring may be required when the commissioner makes a determination that the monitoring is required to protect human health and the environment. The commissioner shall make a written determination describing the basis for the need for ground water monitoring based on information provided about any of the following:

- (1) Proximity of ground water aquifer to waste management systems.
- (2) Soil types located at and around the proposed waste management systems.
- (3) Site-specific factors at the location of the proposed waste management system that may elevate the potential for contamination of the ground water aquifer.

(b) The commissioner may request additional information from an owner/operator to complete the written determination in subsection (a).

(c) All CFOs required to conduct ground water monitoring must comply with the requirements of this section.

(d) Owners/operators of a manure storage facility shall develop and follow a written ground water monitoring plan. This plan must:

- (1) be approved by the department;
- (2) be kept in the operating record; and
- (3) include:
 - (A) at least the following monitoring parameters:
 - (i) field pH;
 - (ii) field specific conductance;
 - (iii) nitrates;
 - (iv) chloride;
 - (v) fecal coliform bacteria;
 - (vi) sulfate; and
 - (vii) total dissolved solids;
 - (B) monitoring frequency;

- (C) sample collection method and identification;
- (D) sample preservation and shipment, including field quality control;
- (E) analytical procedures, including:
 - (i) method detection limits; and
 - (ii) practical quantitation limits;
- (F) chain of custody control; and
- (G) a description of how the owner/operator shall determine whether there is a statistically significant increase over background values for each parameter monitored, with the exception of field pH and field specific conductance. The owner/operator shall make these statistical determinations each time the owner/operator collects samples.

(e) If the owner/operator determines under subsection (d)(3)(G) that there is a statistically significant increase for parameters at any monitoring device, the owner/operator shall notify the commissioner of this finding in writing within fourteen (14) days. The notification must indicate what parameters have shown statistically significant increases over background levels. The department may then require corrective action.

(f) Owners/operators must submit the results of ground water monitoring to the department within sixty (60) days of sampling.

(g) Required monitoring must be conducted throughout the active life of the storage facility. Ground water monitoring may be extended beyond the active life of the manure storage facility if a corrective action program is being conducted at the facility. (*Water Pollution Control Division; 327 IAC 19-10-1; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

Rule 11. Storm Water Management

327 IAC 19-11-1 Applicability

Authority: IC 13-13-5-1; IC 13-15-1-2; IC 13-15-2-1

Affected: IC 13-18-10

Sec. 1. (a) All CFOs that are defined as concentrated animal feeding operations (CAFOs) in 40 CFR 122.23(b)(2)* and all CAFOs with a NPDES permit must meet the storm water requirements in 40 CFR 122.23(e)*, 40 CFR 122.42(e)(1)*, and 40 CFR 122.42(e)(2)*.

(b) All CFOs not defined as a CAFO in subsection (a) must comply with section 2 of this rule.

*These documents are incorporated by reference. Copies may be obtained from Government Publishing Office, www.gpo.gov, or are available for review at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, Thirteenth Floor, 100 North Senate Avenue, Indianapolis, IN 46204. (*Water Pollution Control Division; 327 IAC 19-11-1; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; filed Jul 12, 2017, 8:47 a.m.: 20170809-IR-327160003FRA; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-11-2 Storm water management

Authority: IC 13-13-5-1; IC 13-15-1-2; IC 13-15-2-1

Affected: IC 13-18-10

Sec. 2. (a) When evaluating storm water management, CFOs must consider the following:

(1) All activities and significant materials that may reasonably be expected to add significant amounts of pollutants to storm water draining from the facility.

(2) The potential pollutant sources from the following:

- (A) Immediate access roads and rail lines at the CFO used or traveled by carriers of raw materials, waste material, or byproducts used or created by the facility.
- (B) Refuse sites.
- (C) Sites used for the storage and maintenance of material handling equipment.
- (D) Shipping and receiving areas.

(E) Paved, dirt, or gravel parking areas for storage of vehicles to be maintained.

(F) Materials that are treated, stored, or disposed of in a manner to allow exposure to storm water where that exposure may release contaminants into the storm water.

(G) The method and location of on-site storage or disposal of significant materials.

(3) The location of existing structural and nonstructural control measures to reduce pollutants in storm water runoff.

(4) Materials management practices employed to minimize contact of materials with storm water runoff.

(b) The following storm water management practices must be implemented:

(1) Good housekeeping. All areas that may contribute pollutants to storm water discharges should be maintained in a clean, orderly manner.

(2) Preventative maintenance. A preventative maintenance program including timely inspection and maintenance schedule of storm water management devices.

(3) Sediment and erosion control. Identify areas that, due to topography, activities, or other factors, have a high potential for significant soil erosion and identify structural, vegetative, and initiate stabilization measures to limit erosion.

(4) Management of storm water runoff. Practices (other than those that control the generation or source or sources of pollutants) used to divert, infiltrate, reuse, or otherwise manage storm water runoff so as to reduce pollutants in storm water discharges from the site.

(c) The owner/operator of the CFO must complete a certification on a form provided by the department that the requirements of this section have been met. This certification must be kept in the operating record.

(d) If the implemented storm water pollution prevention practices are deemed ineffective by the department, the commissioner may require additional measures to be taken. The commissioner shall provide written documentation describing the basis for any required changes. (*Water Pollution Control Division; 327 IAC 19-11-2; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

Rule 12. Manure Handling and Storage; Site, Design, and Construction Requirements for Waste Management Systems

327 IAC 19-12-1 Applicability

Authority: IC 13-14-8; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-15; IC 13-18-10; IC 13-30

Sec. 1. This rule applies to waste management systems approved for construction after the effective date of this article. (*Water Pollution Control Division; 327 IAC 19-12-1; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; filed Jul 12, 2017, 8:47 a.m.: 20170809-IR-327160003FRA; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-12-2 Site restrictions

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 2. (a) Waste management systems must not be constructed:

(1) except for subsection (b), in karst terrain based on information compiled by the department, and from karst and bedrock maps from the Indiana Geological Survey dated 1997;

(2) in a floodway;

(3) in a one hundred (100) year flood plain, unless all waste management system access is at least two (2) feet above the one hundred (100) year flood plain and structurally sound without lowering flood waters or the seasonal water table below the bottom of the waste management system;

(4) over mines; or

(5) in soil types that are expected to have a seasonal high water table, unless the water table is lowered to keep the water table below the bottom of the waste management system.

(b) The commissioner may approve a waste management system to be constructed in karst terrain based upon the following

site-specific information submitted to the commissioner:

- (1) Characterization of the seasonal water table and soil.
- (2) Design and construction specifications that assure adequate structural integrity and environmental protection.
- (3) For manure storage facilities that are earthen, in addition to 327 IAC 19-7-1(c)(6), information from at least one (1) of the soil borings or test holes to the shallower of either:
 - (A) bedrock; or
 - (B) ten (10) feet below the lowest point of the proposed waste management system.
- (4) Other information that the commissioner deems necessary to ensure protection of human health and the environment.

(Water Pollution Control Division; 327 IAC 19-12-2; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)

327 IAC 19-12-3 Setbacks

Authority: IC 13-14-8; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-15; IC 13-18-10; IC 13-30

Sec. 3. (a) Waste management systems must be located to maintain the minimum setback distances from the following features that are known and identifiable at the time an application is submitted for approval:

- (1) One thousand (1,000) feet from a public water supply well or public water supply surface intake structure.
- (2) Except for subsection (c), three hundred (300) feet from the following:
 - (A) Surface water.
 - (B) Drainage inlets, including water and sediment control basins.
 - (C) Sinkholes, as measured from the surficial opening or the lowest point of the feature.
 - (D) Off-site water wells.

(3) One hundred (100) feet from the following:

- (A) On-site water wells.
- (B) Property lines.
- (C) Public roads.

(4) Four hundred (400) feet from existing off-site residential and public buildings.

(b) A manure storage facility that contains solid manure must be maintained to have a minimum setback of one hundred (100) feet from the features in subsection (a)(2), but must comply with the setbacks in subsection (a)(1), (a)(3), and (a)(4).

(c) If one (1) of the features in subsection (b) is constructed within the specified setback distances to an existing waste management system, a new waste management system may be constructed to maintain the same setback between the existing waste management system and the feature, providing that the feature was:

- (1) not under the control of the owner/operator of the CFO; and
- (2) constructed after the application for original waste management system was submitted to the department.

(d) The owner/operator may obtain a reduced setback under 327 IAC 19-5 by demonstrating to the commissioner that a different compliance approach meets the performance standards in 327 IAC 19-3-1.

(e) The property line setback distances in this section may be waived in writing by the owner of the adjoining property.
(Water Pollution Control Division; 327 IAC 19-12-3; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; filed Jul 12, 2017, 8:47 a.m.: 20170809-IR-327160003FRA; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)

327 IAC 19-12-4 Storage capacity and design requirements

Authority: IC 13-14-8; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-15; IC 13-18-10-4; IC 13-30

Sec. 4. (a) An alternate design may be approved by the commissioner if it is shown to provide an equivalent amount of environmental protection.

(b) All waste management systems must be designed to not discharge to surface waters of the state. If a waste management system discharges or is designed to discharge, a NPDES CAFO permit under 327 IAC 15-16 is required.

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(c) All manure storage facilities for the CFO must be designed, constructed, and maintained with a combined storage capacity of at least one hundred eighty (180) days storage for the following:

(1) All materials entering the manure storage facility.

(2) If applicable, the expected precipitation and runoff from a twenty-five (25) year, twenty-four (24) hour precipitation event that falls on the drainage area around the manure storage facility that contains liquid.

Calculations for manure excretion characteristics must be based on ASAE D384.2: Manure Production and Characteristics, March 2005*.

(d) All liquid manure storage facilities must be constructed according to the Indiana NRCS Conservation Practice Standard Code 313: Waste Storage Facility, October 2016**. Construction of all liquid manure storage facilities approved after the effective date of this article must be certified upon completion by a registered professional engineer on a form provided by the department. The engineer's certification must be kept in the operating record and submitted with the affidavit required by subsection (s).

(e) In addition to subsection (d), all concrete manure storage facilities must be constructed according to:

(1) Indiana NRCS Construction Specification, Concrete Construction, May 2015***; and

(2) either:

(A) MWPS-36: Rectangular Concrete Manure Storages, Second Edition, 2005****; or

(B) TR-9: Circular Concrete Manure Tanks, March 1998****.

(f) All earthen manure storage lagoons utilized for treatment must be constructed according to the Indiana NRCS Conservation Practice Standard Code 359: Waste Treatment Lagoon, September 2005***.

(g) Manure storage facilities that contain solid manure may not be constructed in sand or gravel soils, Unified Soil Classification of Pt, GW, GP, GM, GC, SW, SP, SM, as described in ASTM D2488-09a Standard Practice for Description and Identification of Soils (Visual-Manual Procedure)*****, unless specially designed with an approved liner, in accordance with section 5 of this rule.

(h) Waste management systems not specifically listed in this section must be designed and constructed in accordance with the requirements of IC 13-18-10-4(b). The design must be submitted to the department for approval under subsection (a) before construction can commence.

(i) Pipelines must be constructed according to the Indiana NRCS Conservation Practice Standard Code 634: Waste Transfer, October 2010**.

(j) Installation of underground steel storage tanks for manure is prohibited.

(k) Plastic and fiberglass tanks and aboveground steel tanks must comply with the following:

(1) Tanks must have sufficient strength to withstand design loads.

(2) All tanks must be watertight.

(3) Tanks used to store any objectionable or hazardous substances must be cleaned to remove any traces of the other substances prior to addition of manure to the tank.

(4) Tanks must be designed and installed to ensure the seasonal high water table is maintained below the tank or the tank must be anchored to prevent flotation.

(5) Aboveground tanks must have protected shutoff valves for all inlet and outlet pipes.

(l) Vegetative management systems must be constructed according to the Indiana NRCS Conservation Practice Standard Code 635: Vegetated Treatment Area; October 2008**.

(m) Constructed wetlands must be constructed according to the Indiana NRCS Conservation Practice Standard Code 656: Constructed Wetland; November 2012**.

(n) Any drainage system to lower a seasonal water table around the base of a waste management system must be equipped with an access point for sampling within fifty (50) feet of the waste management system.

(o) Any drainage system to lower the seasonal water table around the base of a waste management system must be designed and installed to:

(1) effectively collect and drain the ground water;

(2) be of adequate size, proper slopes, and proper distance from the waste management system;

(3) if applicable, be provided with sumps, pumps (including a backup pump), and electricity supply;

(4) if applicable, have a surface outlet that is at least fifty (50) feet away from the building, and at least:

(A) fifty (50) feet from the property line in soils with a permeability of one-half (1/2) inch per hour or less; or

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(B) twenty (20) feet from the property line in soils with a permeability greater than one-half (1/2) inch per hour; and
(5) have a shut-off valve or equivalent.

(p) Any field tiles or drainage outlets encountered during construction must be cut back at least fifty (50) feet from the edge of a berm or concrete pit or earthen structure and blocked or rerouted in accordance with any applicable local approval requirements.

(q) The commissioner may incorporate conditions into the approval that require testing to verify that the manure storage facility is consistent with the design and performance standards established in this article.

(r) The owner/operator shall notify the commissioner in writing two (2) days prior to scheduled construction of a waste management system. If an owner/operator completes construction of an approved waste management system and wishes to utilize that portion prior to finishing construction of the entire facility, multiple notices must be submitted.

(s) The applicant shall execute and send to the commissioner an affidavit, under penalty of perjury, that a waste management system was constructed and shall be operated in accordance with the requirements of the approval and this article as follows:

(1) The owner/operator shall submit to IDEM, on a form provided by the department, the affidavit within thirty (30) days after the date construction of an approved waste management structure is completed, and prior to the introduction of any animals or manure.

(2) The affidavit must be completed, notarized, and returned to IDEM assuring that the waste management system was constructed and shall be operated in accordance with the requirements of the approval.

(3) The affidavit must include identification of the parts of the waste management system that were completed at the time of submittal.

(4) If an owner/operator performs partial construction of an approved facility and wishes to utilize that portion prior to completing construction of the entire facility, multiple affidavits must be submitted.

(5) No portion of a waste management system, including animal feed and similar feedstock storage areas, shall be utilized unless that portion, or a combination of the waste management system for that portion, is completely constructed prior to the introduction of animals and provides a minimum of one hundred eighty (180) days storage for manure, wastewater, and leachate.

*This document is incorporated by reference. Copies may be obtained from the American Society of Agricultural and Biological Engineers, 2950 Niles Road, St. Joseph, Michigan 49085-9659, online at <http://www.asabe.org/>, or are available for review at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, Thirteenth Floor, 100 North Senate Avenue, Indianapolis, IN 46204.

**These documents are incorporated by reference. Copies may be obtained from the Indiana NRCS State Office, 6013 Lakeside Boulevard, Indianapolis, IN 46278, online at <http://www.nrcs.usda.gov/>, or are available for review at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, Thirteenth Floor, 100 North Senate Avenue, Indianapolis, IN 46204.

***This document is incorporated by reference. Copies may be obtained from the Indiana NRCS State Office, 6013 Lakeside Boulevard, Indianapolis, IN 46278, online at <http://www.nrcs.usda.gov/>, or are available for review at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, Thirteenth Floor, 100 North Senate Avenue, Indianapolis, IN 46204.

****This document is incorporated by reference. Copies may be obtained from the MidWest Plan Service, 122 Davidson Hall, Iowa State University, Ames, Iowa 50011-3080 or are available for review at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, Thirteenth Floor, 100 North Senate Avenue, Indianapolis, IN 46204.

*****This document is incorporated by reference. Copies may be obtained from ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959 or are available for review at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, Thirteenth Floor, 100 North Senate Avenue, Indianapolis, IN 46204. (*Water Pollution Control Division; 327 IAC 19-12-4; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; filed Jul 12, 2017, 8:47 a.m.: 20170809-IR-327160003FRA; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-12-5 Design requirements for liners

Authority: IC 13-14-8; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-15; IC 13-18-10; IC 13-30

Sec. 5. (a) The soil or foundation of a manure storage pond or manure treatment lagoon must have a maximum specific discharge of $1/16 \text{ in}^3/\text{in}^2/\text{day}$ ($1.8 \times 10^{-6} \text{ cm}^3/\text{cm}^2/\text{sec}$). This requirement may be satisfied by soil testing that shows a minimum of three (3) feet of in situ soils that meet the maximum specific discharge criteria. The soil must be over-excavated a minimum of six (6) inches and recompacted to break up the existing macropore structure.

(b) If there is not at least three (3) feet of in situ soils that meet the maximum specific discharge criteria in subsection (a), a liner must be used. Except for clay liners described in subsection (c), liners used in manure storage facilities must meet any of the following design standards:

(1) Indiana NRCS Conservation Practice Standard Code 520: Pond Sealing or Lining-Compacted Soil Treatment, October 2016*.

(2) Indiana NRCS Conservation Practice Standard Code 521A: Pond Sealing or Lining, Flexible Membrane, October 2013*.

(3) Indiana NRCS Conservation Practice Standard Code 522: Pond Sealing or Lining-Concrete October 2016.

(c) Clay liners must be a minimum of one (1) foot thick and have a maximum specific discharge of $1/16 \text{ in}^3/\text{in}^2/\text{day}$ ($1.8 \times 10^{-6} \text{ cm}^3/\text{cm}^2/\text{sec}$).

*These documents are incorporated by reference. Copies may be obtained from the Indiana NRCS State Office, 6013 Lakeside Boulevard, Indianapolis, IN 46278, online at <http://www.nrcs.usda.gov/>, or are available for review at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, Thirteenth Floor, 100 North Senate Avenue, Indianapolis, IN 46204. (*Water Pollution Control Division; 327 IAC 19-12-5; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; filed Jul 12, 2017, 8:47 a.m.: 20170809-IR-327160003FRA; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

Rule 13. Manure Handling and Storage; Operational Requirements

327 IAC 19-13-1 Maintenance requirements

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 1. (a) All waste management systems and application equipment must be maintained and operated to meet the approval conditions.

(b) Management of manure must be in compliance with the following:

(1) This article.

(2) The CFO approval.

(3) All applicable state and federal laws.

(c) Manure at the production area must be stored in an approved waste management system until removed for land application in accordance with 327 IAC 19-14.

(d) If uncovered, liquid manure storage facilities must be maintained with a minimum freeboard of two (2) feet or as specified in the approval conditions.

(e) Uncovered liquid manure storage facilities must have clearly identified markers to indicate manure levels relative to the approved freeboard elevation.

(f) The owner/operator shall inspect all waste management systems for compliance with this article and the approval conditions and, if applicable, freeboard measures as specified in the approval, at least one (1) time each week. Completed self-monitoring records must be kept in the operating record.

(g) All earthen berms for manure storage facilities must be:

(1) stabilized with vegetation or alternative erosion control measures; and

(2) maintained to allow for visual inspection and prevent growth of trees and shrubs.

(h) An owner/operator with an approved vegetative management system must operate and maintain the vegetative

management system to provide effective treatment in accordance with the approval.

(i) Migration of solids from contaminated runoff from any feedlot is prohibited unless directed to an approved manure storage facility.

(j) Provisions shall be made for periodic removal of accumulated solids to preserve storage capacity. The anticipated method for doing this must be considered in planning, particularly in determining the configuration of ponds and type of liner, if any. (*Water Pollution Control Division; 327 IAC 19-13-1; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-13-2 Digesters and other energy recovery systems

Authority: IC 13-14-8-1; IC 13-18-10-4

Affected: IC 13-11-2; IC 13-14-12; IC 13-18; IC 13-20-10.5; IC 13-30

Sec. 2. Any manure digester or energy recovery system located at a CFO or CAFO that receives only biomass, as defined in IC 13-11-2-16.6, must be approved as a waste management system in accordance with IC 13-20-10.5. (*Water Pollution Control Division; 327 IAC 19-13-2; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-13-3 Transport and handling

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 3. Pumping, dumping, or allowing the leakage or drainage of manure from a manure transfer vehicle onto unauthorized premises, public thoroughfares, or into waters of the state is prohibited. (*Water Pollution Control Division; 327 IAC 19-13-3; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-13-4 Emergency response plan

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 4. (a) The owner/operator of a CFO shall develop an emergency response plan to be kept in the operating record. The plan shall contain the following:

(1) Procedures for the following:

- (A) Containing a manure release to prevent it from reaching waters of the state.
- (B) Locating the source of the manure release and stopping the flow of manure or waste liquids.
- (C) Returning released manure or waste liquids to an approved waste management system.
- (D) Land applying released manure in accordance with 327 IAC 19-14.
- (E) Contacting the following:
 - (i) The owner/operator.
 - (ii) Any applicable local emergency or health authorities.

(2) The names and telephone numbers of persons who are identified by the owner/operator as responsible for implementing the emergency response plan.

(3) Areas where potential manure releases can occur and their accompanying drainage points.

(4) Identification of equipment and cleanup materials to be used in the event of a manure release.

(b) The owner/operator must implement the emergency response plan anytime a manure release occurs. If a manure release reaches waters of the state, the owner/operator must also comply with subsection (c).

(c) If a spill reaches waters of the state, the following procedures must be followed:

(1) As soon as possible, but within two (2) hours of discovery, communicate a spill report to the department of environmental management, office of land quality, emergency response section: (888) 233-7745 for in-state calls (toll free) or (317) 233-

7745 for out-of-state calls. If new or updated spill report information becomes known that indicates a significant increase in the likelihood of damage to the waters of the state, the responsible party shall notify the department as soon as possible but within two (2) hours of the time the new or updated information becomes known.

(2) Submit to the Indiana Department of Environmental Management, Office of Land Quality, Emergency Response Section (MC 66-30), 2525 N. Shadeland Ave., Suite 100, Indianapolis, IN 46219-1787, a written copy of the spill report if requested in writing by the department.

(3) Except from modes of transportation other than pipelines, exercise due diligence and document attempts to notify the following:

(A) For manure releases or spills to surface water that cause damage, the nearest affected downstream water user located within ten (10) miles of the spill and in the state of Indiana.

(B) For manure releases or spills to soil outside the facility boundary, the affected property owner or owners, operator or operators, or occupant or occupants.

(Water Pollution Control Division; 327 IAC 19-13-4; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)

Rule 14. Land Application of Manure

327 IAC 19-14-1 Applicability

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 1. Land application of manure, litter, or process wastewater to land that is:

(1) owned by the permittee;

(2) rented by the permittee; or

(3) utilized by the permittee under an agreement for land use;

shall be done in accordance with the requirements of this rule. *(Water Pollution Control Division; 327 IAC 19-14-1; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)*

327 IAC 19-14-2 Required acreage for manure application

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18-10-1; IC 13-30

Sec. 2. (a) All CFOs must maintain a minimum number of acres for manure application based on manure application rates from section 3 of this rule. This must be:

(1) documented in the operating record at all times; and

(2) included in all applications required under IC 13-18-10-1(2).

(b) Any acreage identified as part of the minimum required acreage for the application of manure, litter, or process wastewater that is not owned by the owner or operator of the CFO must be documented in the operating record by land use agreements signed by the property owners on whose property the manure, litter, or process wastewater will or may be applied. If the property is held under a lease or managed by someone other than the property owner, such person in responsible control of the property with authority to approve the application of manure on the land may sign the land use agreement. The land use agreement shall specify the location of each parcel of land upon which manure may be applied and the available acreage on each parcel after calculation of setbacks.

(c) If the applicant can demonstrate to the satisfaction of the commissioner that a smaller amount of acreage can be used and is equally protective of human health and the environment, the commissioner may approve the different amount of acreage based on site-specific criteria submitted with the application package, including:

(1) type of manure generated;

(2) alternate methods of managing manure;

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- (3) innovative technology;
- (4) the marketing and distribution of manure as described in section 7 of this rule; or
- (5) other criteria related to protection of human health or the environment.

(d) Copies of any written waivers related to reduction of the property line setback distances must be kept in the operating record. (*Water Pollution Control Division; 327 IAC 19-14-2; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-14-3 Manure application rates

Authority: IC 13-14-8; IC 13-15-2-1; IC 13-18-10-4
 Affected: IC 13-15; IC 13-18-10; IC 13-30

Sec. 3. (a) The owner/operator of a CFO shall have the results of a soil test prior to any land application events, as well as a manure test. Soil and manure tests must be conducted in accordance with the manure management plan that is submitted to the commissioner to meet the requirement in 327 IAC 19-7-1(c)(5).

(b) The application rate of nitrogen (N) must not exceed the N requirements based on the recommendations in the following documents for current or planned crops of the upcoming growing season as documented in the operating record:

- (1) Purdue University Cooperative Extension Service publication ID-101: Animal Manure as a Plant Nutrient Resource, February 2001*.
- (2) Tri-State Fertilizer Recommendations for Corn, Soybeans, Wheat and Alfalfa, Extension Bulletin E-2567 (New), July 1995**. Minimum N loss estimates must be used unless otherwise justified. This justification must be kept in the operating record.

(c) For the first manure application only, nutrient content of manure from facilities constructed after the effective date of this article must be:

- (1) based on either:
 - (A) manure test values as described in 327 IAC 19-7-5(d); or
 - (B) values in the NRCS Agricultural Waste Management Field Handbook (AWMFH) Chapter 4, March 2008***; and
- (2) applied at fifty percent (50%) of the rate listed in subsection (b).

For all subsequent manure application events, nutrient content values must be based on manure test values.

- (d) As of the effective date of this article, the following must comply with the phosphorus application rates in Table 1:
 - (1) Large CAFOs, as defined in 40 CFR 122.23(b)****, that were approved for initial construction after February 13, 2003.
 - (2) CAFOs with a NPDES permit.
 - (3) CFOs approved for initial construction after the effective date of this article.

Table 1	
Phosphorus Application Rates for Large CAFOs Approved for Initial Construction After February 13, 2003, and CFOs Approved for Initial Construction After the Effective Date of this Article	
Soil test level (ppm)	Application rate
0-50	N based
51-100	1.5 × P crop removal
101-200	1.0 × P crop removal
201+	0

(e) Beginning with the effective date of this article, CFOs and CAFOs not listed in subsection (d) must comply with the phosphorus application rates in Table 2:

Table 2				
Phosphorus Application Rates for all Other CFOs and CAFOs				
Soil test level (ppm)	Year ¹			
	2012-2013	2014-2015	2016-2017	2018+
0-50	N based	N based	N based	N based
51-100	1.5 × P crop removal	1.5 × P crop removal	1.5 × P crop removal	1.5 × P crop removal

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101-200	1.0 × P crop removal	1.0 × P crop removal	1.0 × P crop removal	1.0 × P crop removal
201-250	0.9 × P crop removal	0.75 × P crop removal	0.75 × P crop removal	0
251-275	0.9 × P crop removal	0.75 × P crop removal	0.5 × P crop removal	0
276-300	0.9 × P crop removal	0.75 × P crop removal	0.25 × P crop removal	0
301-350	0.7 × P crop removal	0.5 × P crop removal	0	0
351-400	0.7 × P crop removal	0.25 × P crop removal	0	0
401+	0	0	0	0

¹ Multiple years of phosphorus may be applied as long as the net average of phosphorus does not exceed the amounts indicated in Table 2.

(f) The following land application information must be added to the operating record as needed in accordance with required time frames established in this article and IC 13-18-10 and must be maintained and updated in the operating record:

- (1) Expected crop yields.
- (2) The date or dates manure, litter, or process wastewater is applied to each field.
- (3) Precipitation events at the time of application and for twenty-four (24) hours prior to and following application.
- (4) Test methods used to sample and analyze manure, litter, process wastewater, and soil.
- (5) Results from manure, litter, process wastewater, and soil sampling.
- (6) An explanation of the basis for determining manure, litter, and process wastewater application rates.
- (7) Calculations showing the manure nitrogen and phosphorus to be applied to each field.
- (8) Total amount of nitrogen and phosphorus actually applied to each field, including documentation of calculations for the total amount applied.
- (9) The method used to apply the manure, litter, or process wastewater.
- (10) The date or dates of manure, litter, and process wastewater application equipment inspection.
- (11) USDA soil survey maps of currently available land application sites.
- (12) The type of manure applied.
- (13) A written conservation plan with an explanation of conservation practices used must be completed and implemented prior to land application on highly erodible land, if required in section 4(j) of this rule. CAFOs with a NPDES permit must have a nutrient management plan prior to land application on highly erodible land.

*These documents are incorporated by reference. Copies may be obtained from the Cooperative Extension Service, Purdue University, West Lafayette, IN 47907, online at <https://www.extension.purdue.edu/extmedia/id/id-101.html>, or are available for review at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, Thirteenth Floor, 100 North Senate Avenue, Indianapolis, IN 46204.

**This document is incorporated by reference. Copies may be obtained from the Cooperative Extension Service, Purdue University, West Lafayette, IN 47907, online at <https://www.extension.purdue.edu/extmedia/AY/AY-9-32.pdf>, or are available for review at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, Thirteenth Floor, 100 North Senate Avenue, Indianapolis, IN 46204.

***This document is incorporated by reference. Copies may be obtained from the Natural Resources Conservation Service, West National Technology Support Center, 1201 NE Lloyd Boulevard, Suite 1000, Portland, OR 97232, online at <http://www.nrcs.usda.gov/>, or are available for review at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, Thirteenth Floor, 100 North Senate Avenue, Indianapolis, IN 46204.

****This document is incorporated by reference. Copies may be obtained from Government Publishing Office, www.gpo.gov or are available for review at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, Thirteenth Floor, 100 North Senate Avenue, Indianapolis, IN 46204. (*Water Pollution Control Division; 327 IAC 19-14-3; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; errata filed Nov 9, 2012, 11:09 a.m.: 20121128-IR-327120607ACA; filed Jul 12, 2017, 8:47 a.m.: 20170809-IR-327160003FRA; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-14-4 Manure application activities

Authority: IC 13-14-8; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-15; IC 13-18-10; IC 13-30

Sec. 4. (a) Manure that is staged at the manure application site for more than seventy-two (72) hours must be:

- (1) covered or adequately bermed to prevent run-on or runoff;
- (2) applied to the site within ninety (90) days;
- (3) set back from property lines and public roads one hundred (100) feet; and
- (4) set back from residential buildings four hundred (400) feet.

(b) Staging of manure at the manure application site is prohibited:

(1) within three hundred (300) feet of surface water, drainage inlets, including water and sediment control basins, or water wells unless there is a:

(A) barrier; or

(B) surface gradient that contains or directs any contaminated runoff away from the waters of the state, drainage inlets, including water and sediment control basins, or water wells;

- (2) on any area with a slope greater than six percent (6%), unless run-on and runoff is controlled;
- (3) on any standing water or waterway; or
- (4) in any flood plain for more than seventy-two (72) hours.

(c) Solid manure, litter, or contaminated bedding may not be placed outside of any approved manure storage facility at the CFO overnight for more than twenty-four (24) hours or during inclement weather.

(d) The application of manure is prohibited in the following conditions:

(1) Saturated ground.

(2) Manure applied from manure application equipment operating on a public road.

(e) For large CAFOs, as defined in 40 CFR 122.23(b)*, and CAFOs with a NPDES permit, surface application of manure, litter, or process wastewater to frozen or snow covered ground is prohibited, unless allowed under a NPDES permit obtained by the CAFO. Injection or incorporation of manure into the soil on the same day is allowed.

(f) CFOs not described in subsection (e) may surface apply manure on frozen or snow covered ground in accordance with subsections (g) through (i). Injection or incorporation of manure into the soil on the same day is allowed.

(g) For purposes of this section, an emergency application is only allowed when there is an immediate need to apply manure to comply with the manure storage requirement of 327 IAC 19-12-4 due to unforeseen circumstances affecting the storage of the liquid manure as follows:

(1) The unforeseen circumstances must be beyond the control of the owner of the CFO, including:

(A) natural disaster;

(B) extreme weather conditions;

(C) equipment failure; or

(D) structural failure.

(2) The need to apply manure to maintain required storage capacity due to improper design or management of the manure storage facility, including a failure to properly account for the volume of manure to be stored is not considered an emergency.

(h) The following requirements apply to all emergency land application of manure on frozen or snow covered ground:

(1) The person must notify the appropriate department field office by telephone prior to the application.

(2) The following information must be provided or the notification is not considered complete:

(A) The CFO owner's name.

(B) The facility name.

(C) The facility ID number.

(D) The reason for emergency application.

(E) The date of land application.

(F) The estimated number of gallons of manure to be applied.

(G) The location of the application fields.

The owner must document the emergency as well as actions taken to abate it and keep that information in the CFO's

operating record.

(3) The manure must be applied in accordance with all land application requirements of this rule and additionally, may only be applied on a field where the following conditions are met:

- (A) No application to land with a slope greater than two percent (2%), unless there is forty percent (40%) crop residue or vegetated crop cover on the land application site.
- (B) No application in a flood plain.
- (C) Application may not be closer than two hundred (200) feet from any surface water.
- (D) The application rate for all farms can be no more than a total of fifty percent (50%) of the agronomic rate, based on Table 1 of section 3 of this rule.

(4) Once the emergency is abated, land application of manure must cease to frozen or snow covered ground.

(i) For a CFO that is not a large CAFO with one hundred twenty (120) days or less of approved storage capacity, the commissioner may authorize application of manure to frozen or snow-covered ground on a case-by-case basis. The CFO must:

- (1) provide proof of available storage capacity to the commissioner; and
- (2) comply with subsection (h)(3).

This authorization terminates when a discharge to waters of the state or a water quality violation is documented.

(j) Manure must not be applied to highly erodible land unless:

- (1) the land has forty percent (40%) residue protection or crop cover; or
- (2) it is applied in accordance with a conservation plan described in section 3(f)(13) of this rule.

(k) Any manure application, except those described in subsection (l), that causes a water quality violation:

- (1) is a violation of this article; and
- (2) may result in enforcement action.

(l) Subsection (k) does not apply to organic or inorganic matter that consists of fertilizer material that:

- (1) is contained in:
 - (A) runoff from a storm event; or
 - (B) irrigation return flow; and
- (2) enters waters of the state as a result of land application of the fertilizer material that is:
 - (A) for agricultural purposes;
 - (B) done at appropriate agronomic rates for proper nutrient uptake in the field;
 - (C) applied in accordance with this rule; and
 - (D) documented.

*This document is incorporated by reference. Copies may be obtained from Government Publishing Office, www.gpo.gov, or are available for review at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, Thirteenth Floor, 100 North Senate Avenue, Indianapolis, IN 46204. (*Water Pollution Control Division; 327 IAC 19-14-4; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; filed Jul 12, 2017, 8:47 a.m.: 20170809-IR-327160003FRA; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-14-5 Spray irrigation

Authority: IC 13-13-5-1; IC 13-15-1-2; IC 13-15-2-1

Affected: IC 13-18-10

Sec. 5. (a) Spray irrigation of manure and process wastewater must be conducted to prevent equipment leaks and excessive application. Application is deemed excessive when the application rate exceeds the infiltration rate of the soil where the application is occurring.

(b) Application must be conducted:

- (1) under the constant supervision of a person; or
- (2) with devices to detect pressure loss due to leaks and devices to shut down the system if leaks are detected.

(c) Manure and process wastewater must not be applied by spray irrigation to any land that has less than twenty (20) inches of soil above the bedrock.

(d) Spray irrigation in a flood plain is prohibited unless the following conditions are met:

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- (1) The setback from surface water is increased to two hundred (200) feet.
- (2) Spraying is only done during months that the NRCS soil data mart indicates have a low potential for flooding.
- (3) There is no expectation of flooding, based on:
 - (A) available weather forecast information; and
 - (B) rainfall or flood conditions upstream of the land application area.
- (4) A spray irrigation plan is completed, which must be kept in the operating record and includes the following:
 - (A) A map of the flood plain area.
 - (B) A timeline of when the spraying will occur.
 - (C) A description of the methods used in subsection (b).

(Water Pollution Control Division; 327 IAC 19-14-5; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA)

327 IAC 19-14-6 Manure application setbacks

Authority: IC 13-14-8; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-15; IC 13-18-10; IC 13-30

Sec. 6. (a) Except as otherwise provided under this section, application of manure and process wastewater must be in accordance with the setbacks in Table 1: Manure Application Setback Distances, from Indiana NRCS Conservation Practice Standard 590: Nutrient Management, October 2013*, as follows:

- (1) All setback distances must be measured from the edge of the area of actual placement of manure or process wastewater on the land.
- (2) The property line setback distances in this subsection may be waived in writing by the owner of the adjoining property.
- (3) The setback is the width of the filter strip if a properly designed and maintained filter strip of at least fifty (50) feet in width is located between the application site and any of the following:
 - (A) Surface water.
 - (B) Any known private well.
 - (C) The surface opening or lowest point of any sinkhole.
 - (D) Any drainage inlet, including water and sediment control basins.
- (4) The setback is ten (10) feet if a gradient barrier is located between the application site and any of the following:
 - (A) Surface water.
 - (B) Any known well.
 - (C) The surface opening or lowest point of any sinkhole.
 - (D) Any drainage inlet, including water and sediment control basins.
- (b) To ensure that manure and process wastewater are not applied before, during, or immediately following a rain event that, when combined with soil conditions, would likely result in runoff, the owner/operator must take into account the:
 - (1) weather forecast and likelihood of precipitation events for the twenty-four (24) hour period before and after the application; and
 - (2) site soil conditions.
- (c) Land application sites must be inspected to identify any field tile outlets, grassed waterways, and surface water conveyance channels under or immediately bordering the land application site as follows:
 - (1) Monitoring of identified field tile outlets, waterways, and surface water conveyance channels must occur during and immediately following land application of the manure or process wastewater based on:
 - (A) color;
 - (B) flow;
 - (C) volume and volume change; and
 - (D) odor and change in odor.
 - (2) If there is evidence of manure or process wastewater discharging from the field tile outlet, the land application must cease immediately and the flow must be stopped or captured. Any flow that is captured must be either land applied or returned to an approved manure storage facility.

(d) The monitoring activities conducted in accordance with subsection (c) must be documented and placed in the operating record.

*This document is incorporated by reference. Copies may be obtained from the Indiana NRCS State Office, 6013 Lakeside Boulevard, Indianapolis, IN 46278, online at <http://www.in.nrcs.usda.gov/>, or are available for review at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, Thirteenth Floor, 100 North Senate Avenue, Indianapolis, IN 46204. (*Water Pollution Control Division; 327 IAC 19-14-6; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; filed Jul 12, 2017, 8:47 a.m.: 20170809-IR-327160003FRA; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-14-7 Marketing and distribution of manure

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 7. (a) The owner/operator of the CFO shall provide an information sheet to any person that receives or purchases more than ten (10) cubic yards of dry manure or four thousand (4,000) gallons of liquid manure in a year from the CFO unless the owner/operator takes responsibility for applying the manure.

(b) The information sheet must contain, at a minimum, the following information:

- (1) The name and address of the CFO providing the manure.
- (2) A statement indicating that it is unlawful to allow the manure to enter any waters of the state.
- (3) Information on the nutrient content of the manure.
- (4) The manure application requirements of this rule.

(c) The operating record must contain and be maintained and updated with records of any person who receives or purchases more than ten (10) cubic yards of dry manure or four thousand (4,000) gallons of liquid manure in a year to include the following:

- (1) The name and address of the person receiving or purchasing the manure.
- (2) The amount of manure received or purchased by the person.
- (3) A copy of the information sheet.

(d) If a manure distribution program is used, IDEM may allow for a waiver of some or all of a facility's total land application acreage requirements based on submittal of:

- (1) the documentation as described in subsections (b) and (c) from the previous three (3) years showing the amount of manure produced and marketed at the facility; or
- (2) contracts for the entire approval term for marketing the projected amount of manure produced at the facility.

(e) All records in this section must be made available to a representative of the department during an inspection. (*Water Pollution Control Division; 327 IAC 19-14-7; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

Rule 15. Decommissioning of Manure Storage Facilities

327 IAC 19-15-1 Applicability

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 1. The owner/operator of a CFO subject to this article that plans to decommission a manure storage facility must comply with the requirements in section 2 of this rule. A manure storage facility is deemed decommissioned when the environmental threat has been removed. (*Water Pollution Control Division; 327 IAC 19-15-1; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-15-2 General requirements

Authority: IC 13-14-8; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-15; IC 13-18-10; IC 13-30

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Sec. 2. (a) The owner/operator of a CFO that plans to decommission a manure storage facility shall do the following:

- (1) Decommission the manure storage facility in accordance with the requirements in this section prior to expiration of the approval.
- (2) Continue to maintain the manure storage facility in accordance with the requirements of this article until the manure is removed.
- (3) Have all the manure removed from the manure storage facility to the extent practical.
- (4) Have the manure:
 - (A) applied to the land in accordance with 327 IAC 19-14; or
 - (B) managed in accordance with this article and applicable state and federal laws.
- (5) Follow the requirements in the Indiana NRCS Conservation Practice Standard Code 360, Closure of Waste Impoundments, November 2012*, if applicable.
- (6) Have all associated appurtenances and conveyance structures removed from uncovered manure storage facilities.
- (7) Recalculate the storage capacity for the CFO.
- (8) Notify the department:
 - (A) before demolishing or converting the use of any manure storage facility; and
 - (B) of the intended future use of the manure storage facility if the manure storage facility is to be converted to another use.

(b) The owner/operator shall submit a certification to the commissioner within thirty (30) days of completing the requirements in this section that states compliance with the requirements in this section.

(c) If deemed necessary to protect human health or the environment, the commissioner may require additional decommissioning activities based on:

- (1) surface or ground water contamination;
- (2) evidence of leakage, seepage, manure releases, or spills; or
- (3) other criteria related to protection of human health or the environment.

The commissioner shall provide written documentation describing the basis for any required additional activities.

*This document is incorporated by reference. Copies may be obtained from the Indiana NRCS State Office, 6013 Lakeside Boulevard, Indianapolis, IN 46278, online at <http://www.in.nrcs.usda.gov/>, or are available for review at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, Thirteenth Floor, 100 North Senate Avenue, Indianapolis, IN 46204. (*Water Pollution Control Division; 327 IAC 19-15-2; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; filed Jul 12, 2017, 8:47 a.m.: 20170809-IR-327160003FRA; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

Rule 16. Exiting the Confined Feeding Approval Program

327 IAC 19-16-1 Applicability

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 1. This rule applies to any CFO owner/operator that wants to be removed from the program due to a:

- (1) reduction in the size of the CFO to a number of animals that is less than the definition of CFO in 327 IAC 19-2-7; or
- (2) decision to cease operation and completely close the entire CFO.

(*Water Pollution Control Division; 327 IAC 19-16-1; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-16-2 Reduction in size of the operation

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 2. (a) A CFO may be removed from the regulated confined feeding approval program, but continue to operate as a

smaller operation, if:

- (1) the department has received a request from the owner/operator to be removed from the program and confirming that the CFO has and maintains fewer animals than the definition of CFOs in 327 IAC 19-2-7; and
- (2) approved by the commissioner based on a review of the criteria in subsection (b).

(b) The commissioner shall review the following criteria in determining if a request to exit the confined feeding approval should be approved:

- (1) The number of animals at the CFO.
- (2) Past enforcement actions relative to any discharges and current compliance with any outstanding violations.
- (3) Manure inventory.
- (4) Appropriate decommissioning per the requirements in 327 IAC 19-15-2(a) of any manure storage facilities that will no longer be used.
- (5) Existence of any conditions that pose a threat to human health or the environment.

(c) The commissioner shall send the owner/operator a letter of confirmation when the department has verified that the requirements of subsection (a) have been met.

(d) For a CFO that has been removed from the CFO approval program under subsection (a), the owner/operator must submit a new application under this article to again operate a CFO as defined in 327 IAC 19-2-7. (*Water Pollution Control Division; 327 IAC 19-16-2; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

327 IAC 19-16-3 Closing the operation

Authority: IC 13-14-8-7; IC 13-15-2-1; IC 13-18-10-4

Affected: IC 13-11-2; IC 13-14; IC 13-15; IC 13-18; IC 13-30

Sec. 3. (a) A CFO may be removed from the regulated confined feeding approval program and completely closed if the department has been notified that:

- (1) all livestock animals are removed from the site; and
- (2) the CFO decommissioned all manure storage facilities in accordance with 327 IAC 19-15-2, including the removal of all manure.

(b) A CFO will not be allowed to exit the CFO program until all manure generated during the time the CFO was regulated has been disposed of or land applied in accordance with this article.

(c) The commissioner shall send the owner/operator a letter of confirmation when the department has verified that the requirements of subsection (a) have been met. (*Water Pollution Control Division; 327 IAC 19-16-3; filed Feb 6, 2012, 2:58 p.m.: 20120307-IR-327090615FRA, eff Jul 1, 2012; readopted filed Jun 6, 2018, 1:59 p.m.: 20180704-IR-327180171BFA*)

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