

ARTICLE 9. UNDERGROUND STORAGE TANKS

NOTE: IC 13-7 was repealed by P.L.1-1996, SECTION 99, effective July 1, 1996.

Rule 1. Applicability; Definitions

329 IAC 9-1-1 Applicability

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-12-3-2; IC 13-23

Sec. 1. (a) This article applies to all owners and operators of an UST system as defined in section 49 of this rule, except as otherwise provided in subsections (b) through (d). Any UST system listed in subsection (c) shall meet the requirements of section 1.1 of this rule. Nothing in this article shall be construed to conflict with, circumvent, rescind, or repeal any authority, power, or duty possessed by the office of the state fire marshal under Indiana law.

(b) The following UST systems are excluded from the requirements of this article:

(1) Any UST system holding:

(A) hazardous wastes regulated under Subtitle C (42 U.S.C. 6921 through 42 U.S.C. 6939b) of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act, as amended, 42 U.S.C. 6901, et seq., in effect on September 30, 1996; or

(B) a mixture of such hazardous waste and other regulated substances.

(2) Any wastewater treatment tank system that is part of a wastewater treatment facility regulated under Section 402 (33 U.S.C. 1342) or 307(b) (33 U.S.C. 1317(b)) of the Clean Water Act, as amended, 33 U.S.C. 1251 et seq., in effect on October 31, 1994.

(3) Equipment or machinery that contains regulated substances for operational purposes and that may include any of the following:

(A) Hydraulic lift tanks.

(B) Electrical equipment tanks.

(4) Any UST system whose capacity is one hundred ten (110) gallons or less, except an owner and operator with two (2) or more UST systems on-site whose individual capacities are one hundred ten (110) gallons or less are not excluded if the total capacity of all tanks on-site containing the same product exceeds one hundred ten (110) gallons.

(5) Any UST system that contains a de minimis concentration of regulated substances.

(6) Any emergency spill or overflow containment UST system that is expeditiously emptied after use.

(c) 329 IAC 9-2 through 329 IAC 9-4, 329 IAC 9-6, and 329 IAC 9-7 do not apply to any of the following types of UST systems:

(1) Wastewater treatment tank systems.

(2) Any UST system containing radioactive material that is regulated under the Atomic Energy Act of 1954, 42 U.S.C. 2011, et seq., as amended, in effect on April 26, 1996.

(3) Any UST system that is part of an emergency generator system at a nuclear power generation facility regulated by the Nuclear Regulatory Commission under 10 CFR 50, Appendix A.

(4) Airport hydrant fuel distribution systems.

(5) UST systems with field-constructed tanks.

(d) 329 IAC 9-7 does not apply to any UST system that stores fuel solely for use by emergency power generators, except for those installed or replaced after the effective date of the 2009 amendments.

(e) Unless specified in the documents incorporated by reference in this article, the version of documents referenced in the incorporated by reference documents is the latest version that is in effect on the date of final adoption of the incorporated by reference documents into a section of this article.

(f) Owners or operators:

(1) performing a task or measure before the effective date of the 2004 amendments to this article; or

(2) taking an action, such as submitting reports, plans, or notifications received by the agency on a date before the effective date of the 2004 amendments to this article;

will be governed by this article before it was amended in 2004.

(g) Owners or operators completing any requirement of this article, including:

- (1) performing a task or measure on or after the effective date of the 2004 amendments to this article; or
- (2) taking an action, such as submitting reports, plans, or notifications received by the agency on a date on or after the effective date of the 2004 amendments to this article;

will be governed by this article as amended in 2004. (*Solid Waste Management Division; 329 IAC 9-1-1; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1062; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3683; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535; filed Aug 30, 2004, 9:35 a.m.: 28 IR 145; filed Aug 3, 2009, 1:48 p.m.: 20090902-IR-329080055FRA*)

329 IAC 9-1-1.1 Interim prohibition for deferred UST systems

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 1.1. (a) No person shall install a UST system listed in section 1(c) of this rule for the purpose of storing regulated substances unless the UST system, whether of single-wall or double-wall construction, meets the following requirements:

- (1) The UST system prevents releases due to corrosion or structural failure for the operational life of the UST system.

- (2) The UST system is:

- (A) cathodically protected against corrosion;
- (B) constructed of noncorrodible material;
- (C) steel clad with a noncorrodible material; or
- (D) designed in a manner to prevent the release or threatened release of any stored substance.

- (3) The UST system is constructed or lined with a material that is compatible with the stored substance.

(b) Notwithstanding subsection (a), a UST system without corrosion protection may be installed at a site that is determined by a corrosion expert not to be corrosive enough to cause the UST system to have a release due to corrosion during its operating life. The owner and operator shall maintain records that demonstrate compliance with this subsection for the remaining life of the tank. (*Solid Waste Management Division; 329 IAC 9-1-1.1; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3684; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-1-2 Applicability of definitions

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-11-2; IC 13-23

Sec. 2. In addition to the definitions in:

- (1) IC 13-11-2-17(e);
- (2) IC 13-11-2-73;
- (3) IC 13-11-2-75;
- (4) IC 13-11-2-84;
- (5) IC 13-11-2-142;
- (6) IC 13-11-2-160;
- (7) IC 13-11-2-163;
- (8) IC 13-11-2-172(d);
- (9) IC 13-11-2-240; and
- (10) IC 13-11-2-268;

the definitions in this rule apply throughout this article unless otherwise indicated by the text. (*Solid Waste Management Division; 329 IAC 9-1-2; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1063; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3684; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-1-3 "Aboveground release" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 3. "Aboveground release" means any release to the surface of the land, surface water, or ground water. An aboveground release may include any of the following:

- (1) Releases from the aboveground portion of a UST system.
- (2) Aboveground releases associated with overfills and transfer operations as the regulated substance moves to or from a UST system.

(Solid Waste Management Division; 329 IAC 9-1-3; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1063; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3684; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535)

329 IAC 9-1-4 "Agency" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 4. "Agency" means the department of environmental management. This definition is not applicable under 329 IAC 9-8. *(Solid Waste Management Division; 329 IAC 9-1-4; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1063; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3685; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535; filed Aug 30, 2004, 9:35 a.m.: 28 IR 145)*

329 IAC 9-1-5 "Ancillary equipment" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 5. "Ancillary equipment" means any device that may include any:

- (1) piping;
- (2) fittings;
- (3) flanges;
- (4) valves; or
- (5) pumps;

used to distribute, meter or control the flow of regulated substances to and from an underground storage tank. *(Solid Waste Management Division; 329 IAC 9-1-5; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1063; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3685; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535)*

329 IAC 9-1-6 "Belowground release" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 6. "Belowground release" means any release to the subsurface of the land, ground water, or surface water. A belowground release may include any of the following:

- (1) Releases from the belowground portions of a UST system.
- (2) Belowground releases associated with overfills and transfer operations as the regulated substance moves to or from an underground storage tank.

(Solid Waste Management Division; 329 IAC 9-1-6; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1063; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3685; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535)

329 IAC 9-1-7 "Beneath the surface of the ground" defined

Authority: IC 13-7

Affected: IC 13-7-20-12; IC 13-7-20-13

Sec. 7. "Beneath the surface of the ground" means beneath the ground surface or otherwise covered with earthen materials. *(Solid Waste Management Division; 329 IAC 9-1-7; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1063; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535)*

329 IAC 9-1-8 "Cathodic protection" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 8. "Cathodic protection" means a technique to prevent corrosion of a metal surface by making that surface the cathode of an electrochemical cell. A tank system can be cathodically protected through the application of either galvanic anodes or impressed current. (*Solid Waste Management Division; 329 IAC 9-1-8; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1063; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3685; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-1-9 "Cathodic protection tester" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 9. "Cathodic protection tester" means a person who can demonstrate an understanding of the principles and measurements of all common types of cathodic protection systems as applied to buried or submerged metal piping and tank systems. At a minimum, such person shall have education and experience in the following:

- (1) Soil resistivity.
- (2) Stray current.
- (3) Structure-to-soil potential.
- (4) Component electrical isolation measurements of buried metal piping and tank systems.

(*Solid Waste Management Division; 329 IAC 9-1-9; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1064; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3685; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-1-10 "CERCLA" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 10. "CERCLA" means the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended by the Superfund Amendments and Reauthorization Act of 1986, as amended, 42 U.S.C. 9601, et seq., in effect on October 12, 1996. (*Solid Waste Management Division; 329 IAC 9-1-10; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1064; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3685; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-1-10.1 "Chemical of concern" or "COC" defined (Repealed)

Sec. 10.1. (*Repealed by Solid Waste Management Division; filed Aug 30, 2004, 9:35 a.m.: 28 IR 177*)

329 IAC 9-1-10.2 "Clean closure" defined (Repealed)

Sec. 10.2. (*Repealed by Solid Waste Management Division; filed Aug 30, 2004, 9:35 a.m.: 28 IR 177*)

329 IAC 9-1-10.4 "Change-in-service" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 10.4. "Change-in-service" means continued use of the UST or UST system to store a nonregulated substance. (*Solid Waste Management Division; 329 IAC 9-1-10.4; filed Aug 30, 2004, 9:35 a.m.: 28 IR 146*)

329 IAC 9-1-10.6 "Chemical of concern" or "COC" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 10.6. "Chemical of concern" or "COC" means the parameter to be analyzed as a possible contaminant. (*Solid Waste Management Division; 329 IAC 9-1-10.6; filed Aug 30, 2004, 9:35 a.m.: 28 IR 146*)

329 IAC 9-1-10.7 "Chronic failure to comply" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2; 42 U.S.C. 6991

Affected: IC 13-13-1-1; IC 13-23

Sec. 10.7. "Chronic failure to comply" means a person that has not complied with 329 IAC 9-2-1, 329 IAC 9-2.1 or either of the following occur:

(1) A liquid release of a regulated substance from an underground storage tank system, which may include the failure of any required overfill protection system, where the failure is causing a release to the environment, or the failure of a required spill containment structure, where the failure is causing a release to the environment due to a spill or an overfill.

(2) The inability of an underground storage tank system to detect a liquid leak or contain a liquid release of a regulated substance in the manner required by 329 IAC 9-7, which may include the tampering with leak detection equipment so that the equipment is no longer capable of detecting a leak at the earliest possible opportunity.

(*Solid Waste Management Division; 329 IAC 9-1-10.7; filed May 7, 2010, 10:02 a.m.: 20100602-IR-329070468FRA*)

329 IAC 9-1-10.8 "Closure" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-13-1-1; IC 13-23

Sec. 10.8. "Closure" means the owner or operator has met all the program requirements of 329 IAC 9-6. The term does not imply that the site is completely free of contaminants. Some acceptable level of contaminants may still be on-site. (*Solid Waste Management Division; 329 IAC 9-1-10.8; filed Aug 30, 2004, 9:35 a.m.: 28 IR 146*)

329 IAC 9-1-11 "Commissioner" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-13-1-1; IC 13-23

Sec. 11. "Commissioner" means the commissioner of the department of environmental management as created under IC 13-13-1-1. (*Solid Waste Management Division; 329 IAC 9-1-11; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1064; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3688; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-1-12 "Compatible" defined

Authority: IC 13-7

Affected: IC 13-7-20-12; IC 13-7-20-13

Sec. 12. "Compatible" means the ability of two (2) or more substances to maintain their respective physical and chemical properties upon contact with one another for the design life of the tank system under conditions likely to be encountered in the underground storage tank. (*Solid Waste Management Division; 329 IAC 9-1-12; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1064; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-1-13 "Connected piping" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 13. "Connected piping" means all underground piping, including:

- (1) valves;
- (2) elbows;
- (3) joints;
- (4) flanges; and
- (5) flexible connectors;

attached to a tank system through which regulated substances flow. For the purpose of determining how much piping is connected to any individual UST system, the piping that joins two (2) UST systems should be allocated equally between them. (*Solid Waste Management Division; 329 IAC 9-1-13; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1064; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3688; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-1-14 "Consumptive use" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-11-2-241; IC 13-13-1-1; IC 13-23

Sec. 14. "Consumptive use", with respect to heating oil, means consumed on the premises on which the tank is stored. The heating oil exclusion under IC 13-11-2-241(b)(2) does not apply to the storage of heating oil for resale, marketing, or distribution. (*Solid Waste Management Division; 329 IAC 9-1-14; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1064; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535; filed Aug 30, 2004, 9:35 a.m.: 28 IR 146*)

329 IAC 9-1-14.1 "Corrective action" defined (Repealed)

Sec. 14.1. (*Repealed by Solid Waste Management Division; filed Aug 30, 2004, 9:35 a.m.: 28 IR 177*)

329 IAC 9-1-14.3 "Contaminant" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-11-2-42; IC 13-13-1-1; IC 13-23

Sec. 14.3. "Contaminant" has the meaning set forth at IC 13-11-2-42. However, for purposes of this article, the term does not include hazardous waste regulated under 329 IAC 3.1. (*Solid Waste Management Division; 329 IAC 9-1-14.3; filed Aug 30, 2004, 9:35 a.m.: 28 IR 146*)

329 IAC 9-1-14.5 "Corrective action" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 14.5. "Corrective action" means action taken to minimize, contain, eliminate, remediate, mitigate, or clean up a release, including emergency measures taken as part of an initial response to the release under 329 IAC 9-5-2. (*Solid Waste Management Division; 329 IAC 9-1-14.5; filed Aug 30, 2004, 9:35 a.m.: 28 IR 146*)

329 IAC 9-1-14.7 "Corrective action plan" or "CAP" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 14.7. "Corrective action plan" or "CAP" means the corrective action plan described under 329 IAC 9-5-7(a) through 329 IAC 9-5-7(b). (*Solid Waste Management Division; 329 IAC 9-1-14.7; filed Aug 30, 2004, 9:35 a.m.: 28 IR 146*)

329 IAC 9-1-15 "Corrosion expert" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23; IC 25-31-1

Sec. 15. "Corrosion expert" means a person who, by reason of thorough knowledge of the physical sciences and the principles of engineering and mathematics acquired by a professional education and related practical experience, is qualified to engage in the practice of corrosion control on buried or submerged metal piping systems and metal tanks. Such a person shall meet one (1) of the following requirements:

(1) Be accredited or certified as being qualified by NACE International (formerly the National Association of Corrosion Engineers).

(2) Be a registered professional engineer under IC 25-31-1 who has education and experience in corrosion control of buried or submerged metal piping systems and metal tanks.

(Solid Waste Management Division; 329 IAC 9-1-15; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1064; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3689; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535)

329 IAC 9-1-15.5 "Deposit" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2; 42 U.S.C. 6991

Affected: IC 13-13-1-1; IC 13-23

Sec. 15.5. "Deposit" means the act of placing in or filling of an underground storage tank with a regulated substance. *(Solid Waste Management Division; 329 IAC 9-1-15.5; filed May 7, 2010, 10:02 a.m.: 20100602-IR-329070468FRA)*

329 IAC 9-1-16 "Dielectric material" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 16. "Dielectric material" means a material that does not conduct direct electrical current and includes the following:

(1) Dielectric coatings are used to electrically isolate UST systems from the surrounding soils.

(2) Dielectric bushings are used to electrically isolate portions of the UST system. A dielectric bushing may be used to electrically isolate a tank from piping.

(Solid Waste Management Division; 329 IAC 9-1-16; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1064; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3689; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535)

329 IAC 9-1-17 "Electrical equipment" defined

Authority: IC 13-7

Affected: IC 13-7-20-12; IC 13-7-20-13

Sec. 17. "Electrical equipment" means underground equipment that contains dielectric fluid that is necessary for the operation of equipment such as transformers and buried electrical cable. *(Solid Waste Management Division; 329 IAC 9-1-17; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1064; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535)*

329 IAC 9-1-18 "Excavation zone" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 18. "Excavation zone" means the volume containing the tank system and backfill material bounded by the:

(1) ground surface;

(2) walls; and

(3) floor of the pit and trenches;

into which the UST system is placed at the time of installation. (*Solid Waste Management Division; 329 IAC 9-1-18; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1065; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3689; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-1-18.5 "Existing" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-18-17-6; IC 13-23-3

Sec. 18.5. "Existing" means that a:

- (1) tank;
- (2) piping;
- (3) motor fuel dispensing system;
- (4) facility;
- (5) community public water supply system (CPWSS); or
- (6) potable drinking water well;

is in place prior to beginning the installation or replacement of a tank, piping, or motor fuel dispensing system. The term includes a potable drinking water well that the UST owner has or will install at a new underground storage tank facility regardless of whether the well is installed before or after the tanks, piping, and motor fuel dispenser systems. (*Solid Waste Management Division; 329 IAC 9-1-18.5; filed Aug 3, 2009, 1:48 p.m.: 20090902-IR-329080055FRA*)

329 IAC 9-1-19 "Existing tank system" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 19. "Existing tank system" means a tank system used to contain an accumulation of regulated substances or for which installation has commenced on or before December 22, 1988. Installation is considered to have commenced if the following have been completed:

- (1) The owner or operator has obtained all federal, state, and local approvals or permits necessary to begin physical construction of the site or installation of the tank system.
- (2) Either:
 - (A) a continuous on-site physical construction or installation program has begun; or
 - (B) the owner or operator has entered into contractual obligations that cannot be canceled or modified without substantial loss for physical construction at the site or installation of the tank system to be completed within a reasonable time.

(*Solid Waste Management Division; 329 IAC 9-1-19; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1065; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3689; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-1-19.5 "Failure to comply" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2; 42 U.S.C. 6991

Affected: IC 13-13-1-1; IC 13-23

Sec. 19.5. "Failure to comply" means the failure of an owner or operator to manage or operate an underground storage tank system in accordance with 329 IAC 9-3.1 and 329 IAC 9-7. (*Solid Waste Management Division; 329 IAC 9-1-19.5; filed May 7, 2010, 10:02 a.m.: 20100602-IR-329070468FRA*)

329 IAC 9-1-20 "Farm tank" defined

Authority: IC 13-7

Affected: IC 13-7-20-12; IC 13-7-20-13

Sec. 20. "Farm tank" means a tank located on a tract of land devoted to the production of crops or raising animals, including

fish, and associated residences and improvements. A farm tank must be located on the farm property. "Farm" includes fish hatcheries, rangeland, and nurseries with growing operations. (*Solid Waste Management Division; 329 IAC 9-1-20; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1065; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-1-21 "Fire marshal" defined

Authority: IC 13-7

Affected: IC 13-7-20-12; IC 13-7-20-13

Sec. 21. "Fire marshal" means the office of the state fire marshal, Indiana department of fire and building services. (*Solid Waste Management Division; 329 IAC 9-1-21; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1065; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-1-22 "Flow-through process tank" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 22. "Flow-through process tank" means a tank that forms an integral part of a production process through which there is a steady, variable, recurring, or intermittent flow of materials during the operation of the process. Flow-through process tanks do not include tanks used for any of the following:

(1) The storage of materials prior to their introduction into the production process.

(2) The storage of finished products or byproducts from the production process.

(*Solid Waste Management Division; 329 IAC 9-1-22; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1065; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3690; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-1-23 "Free product" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 23. "Free product" means a regulated substance that is present as a nonaqueous phase liquid. Free product usually refers to a liquid not dissolved in water. (*Solid Waste Management Division; 329 IAC 9-1-23; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1065; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3690; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-1-23.1 "Galvanic cathodic protection" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 23.1. "Galvanic cathodic protection" means a technique to prevent the corrosion of a metal surface by sacrificial protection to another metal that is more noble when electrically coupled in an electrolyte. (*Solid Waste Management Division; 329 IAC 9-1-23.1; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3690; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-1-23.2 "Galvanic cathodic protection system" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 23.2. "Galvanic cathodic protection system" means a process to prevent the corrosion of a metal surface by sacrificial protection to another metal that is more noble when electrically coupled in an electrolyte. (*Solid Waste Management Division; 329 IAC 9-1-23.2; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3690; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-1-24 "Gathering lines" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 24. "Gathering lines" means any pipeline, equipment, facility, or building used in the transportation of oil or gas during any of the following:

(1) Oil or gas production operations.

(2) Oil or gas gathering operations.

(Solid Waste Management Division; 329 IAC 9-1-24; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1065; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3690; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535)

329 IAC 9-1-24.1 "Geologically susceptible area" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 24.1. "Geologically susceptible area" means an area that includes karst terrains or other fractured rock geology. *(Solid Waste Management Division; 329 IAC 9-1-24.1; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3690; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535)*

329 IAC 9-1-24.2 "Ground water" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 24.2. "Ground water" has the meaning set forth in 327 IAC 2-1-9 under rules adopted by the water pollution control board. *(Solid Waste Management Division; 329 IAC 9-1-24.2; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3690; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535)*

329 IAC 9-1-25 "Hazardous substance UST system" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 25. "Hazardous substance UST system" means an UST system that contains any of the following:

(1) A hazardous substance that is:

(A) defined in Section 101(14) of CERCLA (42 U.S.C. 9601(14)); and

(B) not regulated as a hazardous waste under 329 IAC 3.1.

(2) Any mixture of substances specified in subdivision (1)(A) or (1)(B) and petroleum and that is not a petroleum UST system.

(Solid Waste Management Division; 329 IAC 9-1-25; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1065; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3690; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535; filed Aug 30, 2004, 9:35 a.m.: 28 IR 146)

329 IAC 9-1-26 "Heating oil" defined

Authority: IC 13-7

Affected: IC 13-7-20-12; IC 13-7-20-13

Sec. 26. "Heating oil" means:

(1) petroleum that is No. 1, No. 2, No. 4-light, No. 4-heavy, No. 5-light, No. 5-heavy, and No. 6 technical grades of fuel oil;

(2) other residual fuel oils (including Navy Special Fuel Oil and Bunker C); and

(3) other fuels when used as substitutes for one (1) of the fuel oils listed in this section.

Heating oil is typically used in the operation of heating equipment, boilers, or furnaces. *(Solid Waste Management Division; 329*

IAC 9-1-26; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1065; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535)

329 IAC 9-1-27 "Hydraulic lift tank" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 27. "Hydraulic lift tank" means a tank that holds hydraulic fluid for a closed-loop mechanical system that uses compressed air or hydraulic fluid to operate any of the following:

- (1) Lifts.
- (2) Elevators.
- (3) Devices similar to those in subdivision (1) or (2).

(Solid Waste Management Division; 329 IAC 9-1-27; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1066; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3691; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535; filed Aug 30, 2004, 9:35 a.m.: 28 IR 147)

329 IAC 9-1-27.1 "Impressed current cathodic protection" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 27.1. "Impressed current cathodic protection" means a technique to prevent corrosion of a metal surface by using an electric current supplied by a device employing a power source that is external to the electrode system. *(Solid Waste Management Division; 329 IAC 9-1-27.1; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3691; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535)*

329 IAC 9-1-27.2 "Impressed current cathodic protection system" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 27.2. "Impressed current cathodic protection system" means a process to prevent corrosion of a metal surface by using an electric current supplied by a device employing a power source that is external to the electrode system. *(Solid Waste Management Division; 329 IAC 9-1-27.2; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3691; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535)*

329 IAC 9-1-27.3 "In-place closure" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 27.3. "In-place closure" means a closure where the underground storage tank is not removed from the ground. *(Solid Waste Management Division; 329 IAC 9-1-27.3; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3691; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535)*

329 IAC 9-1-27.4 "Karst terrains" defined (Repealed)

Sec. 27.4. *(Repealed by Solid Waste Management Division; filed Aug 3, 2009, 1:48 p.m.: 20090902-IR-329080055FRA)*

329 IAC 9-1-27.5 "Interstitial monitoring" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-18-17-6; IC 13-23-3

Sec. 27.5. "Interstitial monitoring" means a release detection method that continuously monitors the interstitial space of an underground storage tank and piping. The term includes only those release detection systems that are capable of detecting a breach

in the primary containment of the underground storage tank and piping component being monitored before the regulated substance or petroleum stored is released to the environment. (*Solid Waste Management Division; 329 IAC 9-1-27.5; filed Aug 3, 2009, 1:48 p.m.: 20090902-IR-329080055FRA*)

329 IAC 9-1-27.6 "Interstitial space" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-18-17-6; IC 13-23-3

Sec. 27.6. "Interstitial space" means the space between the primary and secondary containment systems. (*Solid Waste Management Division; 329 IAC 9-1-27.6; filed Aug 3, 2009, 1:48 p.m.: 20090902-IR-329080055FRA*)

329 IAC 9-1-27.8 "Karst terrains" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-18-17-6; IC 13-23-3

Sec. 27.8. "Karst terrains" means an area where karst topography, with its characteristic surface and subterranean features, is developed as the result of dissolution of limestone, dolomite, or other soluble rock. Characteristic physiographic features present to karst terrains include any of the following:

- (1) Sinkholes.
- (2) Sinking streams.
- (3) Caves.
- (4) Large springs.
- (5) Blind valleys.
- (6) Grikes.
- (7) Karren.
- (8) Solution widened joints or bedding planes.
- (9) Loss of drilling fluid during core drilling.
- (10) Anasotmosis [*sic*], and conduits of less than one (1) meter, but more than two and five-tenths (2.5) millimeters.
- (11) Karst aquifer.

(*Solid Waste Management Division; 329 IAC 9-1-27.8; filed Aug 3, 2009, 1:48 p.m.: 20090902-IR-329080055FRA*)

329 IAC 9-1-28 "Liquid trap" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 28. "Liquid trap" means sumps, well cellars, and other traps used in association with oil and gas production, gathering, and extraction operations (including gas production plants) for the purpose of collecting oil, water, and other liquids. These liquid traps may complete any of the following:

- (1) Temporarily collect liquids for subsequent disposition or reinjection into a production or pipeline stream.
- (2) Collect and separate liquids from a gas stream.

(*Solid Waste Management Division; 329 IAC 9-1-28; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1066; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3691; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-1-29 "Maintenance" defined

Authority: IC 13-7

Affected: IC 13-7-20-12; IC 13-7-20-13

Sec. 29. "Maintenance" means the normal operational upkeep to prevent a UST system from releasing product. (*Solid Waste Management Division; 329 IAC 9-1-29; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1066; readopted filed Jan 10, 2001, 3:25 p.m.: 24*

IR 1535)

329 IAC 9-1-29.1 "Modified closure" defined (Repealed)

Sec. 29.1. *(Repealed by Solid Waste Management Division; filed Aug 30, 2004, 9:35 a.m.: 28 IR 177)*

329 IAC 9-1-30 "Motor fuel" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 30. "Motor fuel" means petroleum or a petroleum-based substance that is:

- (1) motor gasoline;
- (2) aviation gasoline;
- (3) No. 1 diesel fuel;
- (4) No. 2 diesel fuel; or
- (5) any grade of gasohol;

and is typically used in the operation of a motor engine. *(Solid Waste Management Division; 329 IAC 9-1-30; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1066; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3692; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535)*

329 IAC 9-1-31 "New tank system" defined

Authority: IC 13-7

Affected: IC 13-7-20-12; IC 13-7-20-13

Sec. 31. "New tank system" means a tank system that will be used to contain an accumulation of regulated substances and for which installation has commenced after December 22, 1988. *(Solid Waste Management Division; 329 IAC 9-1-31; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1066; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535)*

329 IAC 9-1-32 "Noncommercial purposes" defined

Authority: IC 13-7

Affected: IC 13-7-20-12; IC 13-7-20-13

Sec. 32. "Noncommercial purposes", with respect to motor fuel, means not for resale. *(Solid Waste Management Division; 329 IAC 9-1-32; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1066; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535)*

329 IAC 9-1-33 "On the premises where stored" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 33. "On the premises where stored", with respect to heating oil, means a UST system located on the same property where the stored heating oil is used. *(Solid Waste Management Division; 329 IAC 9-1-33; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1066; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3692; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535)*

329 IAC 9-1-34 "Operational life" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 34. "Operational life" means the period beginning when installation of the tank system has commenced until the time the tank system is properly closed under 329 IAC 9-6. *(Solid Waste Management Division; 329 IAC 9-1-34; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1066; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3692; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535)*

329 IAC 9-1-34.1 "Operator" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-11-2-148; IC 13-23

Sec. 34.1. "Operator" has the meaning as set forth in IC 13-11-2-148(d). (*Solid Waste Management Division; 329 IAC 9-1-34.1; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3692; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-1-35 "Overfill release" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 35. "Overfill release" means a release that occurs when a tank is filled beyond its capacity, resulting in a discharge of the regulated substance to the environment. (*Solid Waste Management Division; 329 IAC 9-1-35; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1066; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3692; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-1-35.1 "Owner" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-11-2-150; IC 13-23

Sec. 35.1. "Owner" has the meaning as set forth in IC 13-11-2-150. (*Solid Waste Management Division; 329 IAC 9-1-35.1; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3692; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-1-35.2 "Person" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-11-2-158; IC 13-23

Sec. 35.2. "Person" has the meaning as set forth in IC 13-11-2-158(d). (*Solid Waste Management Division; 329 IAC 9-1-35.2; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3692; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-1-36 "Petroleum UST system" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 36. "Petroleum UST system" means an UST system that contains petroleum or a mixture of petroleum with de minimis quantities of other regulated substances. Such systems include those containing any of the following:

- (1) Motor fuels.
- (2) Jet fuels.
- (3) Distillate fuel oils.
- (4) Residual fuel oils.
- (5) Lubricants.
- (6) Petroleum solvents.
- (7) Used oils.

(*Solid Waste Management Division; 329 IAC 9-1-36; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1066; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3692; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535; filed Aug 30, 2004, 9:35 a.m.: 28 IR 147*)

329 IAC 9-1-36.5 "Piezometer" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 36.5. "Piezometer" means a type of monitoring well or other device that is constructed for the purpose of measuring hydraulic head in the ground water. (*Solid Waste Management Division; 329 IAC 9-1-36.5; filed Aug 30, 2004, 9:35 a.m.: 28 IR 147*)

329 IAC 9-1-37 "Pipe" or "piping" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-18-17-6; IC 13-23-3

Sec. 37. (a) "Pipe" or "piping" means a hollow cylinder or tubular conduit that is constructed of nonearthen materials that routinely contains and conveys regulated substances from the tank or tanks to the dispenser or other end-use equipment. The term includes a suction system for product delivery under 329 IAC 9-7-2(2)(B).

(b) The term does not include vent, vapor recovery, or fill lines that do not routinely contain regulated substances. (*Solid Waste Management Division; 329 IAC 9-1-37; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1067; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535; filed Aug 3, 2009, 1:48 p.m.: 20090902-IR-329080055FRA*)

329 IAC 9-1-38 "Pipeline facilities" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 38. "Pipeline facilities", including gathering lines, means the following:

(1) New and existing pipe rights-of-way.

(2) Any associated equipment, facilities, or buildings.

(*Solid Waste Management Division; 329 IAC 9-1-38; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1067; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3693; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-1-38.1 "Product" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-11-2-183; IC 13-23

Sec. 38.1. "Product" means regulated substance. (*Solid Waste Management Division; 329 IAC 9-1-38.1; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3693; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-1-38.2 "Regulated substance" defined (Repealed)

Sec. 38.2. (*Repealed by Solid Waste Management Division; filed May 7, 2010, 10:02 a.m.: 20100602-IR-329070468FRA*)

329 IAC 9-1-38.3 "Release" defined (Repealed)

Sec. 38.3. (*Repealed by Solid Waste Management Division; filed May 7, 2010, 10:02 a.m.: 20100602-IR-329070468FRA*)

329 IAC 9-1-38.5 "Red tag" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2; 42 U.S.C. 6991

Affected: IC 13-13-1-1; IC 13-23

Sec. 38.5. "Red tag" means the device, such as a tamper-resistant strap, fill pipe bag, or any combination thereof, that identifies an underground storage tank system as ineligible to receive a regulated substance or the act of applying such device. (*Solid Waste Management Division; 329 IAC 9-1-38.5; filed May 7, 2010, 10:02 a.m.: 20100602-IR-329070468FRA*)

329 IAC 9-1-38.7 "Regulated substance" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2; 42 U.S.C. 6991

Affected: IC 13-11-2-183; IC 13-23

Sec. 38.7. "Regulated substance" has the meaning set forth in IC 13-11-2-183. (*Solid Waste Management Division; 329 IAC 9-1-38.7; filed May 7, 2010, 10:02 a.m.: 20100602-IR-329070468FRA*)

329 IAC 9-1-38.9 "Release" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2; 42 U.S.C. 6991

Affected: IC 13-11-2-184; IC 13-23

Sec. 38.9. "Release" has the meaning set forth in IC 13-11-2-184(a). (*Solid Waste Management Division; 329 IAC 9-1-38.9; filed May 7, 2010, 10:02 a.m.: 20100602-IR-329070468FRA*)

329 IAC 9-1-39 "Release detection" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 39. "Release detection" means determining whether a release of a regulated substance has occurred from the UST system into any of the following:

(1) The environment.

(2) The interstitial space between the UST system and its secondary barrier or secondary containment around it.

(*Solid Waste Management Division; 329 IAC 9-1-39; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1067; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3693; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-1-39.5 "Removal closure" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 39.5. "Removal closure" means a closure where an UST system is completely extracted. (*Solid Waste Management Division; 329 IAC 9-1-39.5; filed Aug 30, 2004, 9:35 a.m.: 28 IR 147*)

329 IAC 9-1-40 "Repair" defined

Authority: IC 13-7

Affected: IC 13-7-20-12; IC 13-7-20-13

Sec. 40. "Repair" means to restore a tank or UST system component that has caused a release of product from the UST system. (*Solid Waste Management Division; 329 IAC 9-1-40; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1067; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-1-40.5 "Replaced" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-18-17-6; IC 13-23-3

Sec. 40.5. "Replaced" means the permanent removal from service and the new installation of any of the following:

(1) An underground storage tank.

(2) More than fifty percent (50%) of the length of any underground piping between the tank and the dispenser or other end-use equipment at any one (1) time.

(3) A motor fuel dispenser system and the equipment necessary to connect the dispenser to the underground storage tank

system. For purposes of this definition, this equipment includes flexible connectors, risers, or other transitional components that are beneath the dispenser and connect the dispenser to the piping.

(Solid Waste Management Division; 329 IAC 9-1-40.5; filed Aug 3, 2009, 1:48 p.m.: 20090902-IR-329080055FRA)

329 IAC 9-1-41 "Residential tank" defined (Repealed)

Sec. 41. *(Repealed by Solid Waste Management Division; filed Aug 30, 2004, 9:35 a.m.: 28 IR 177)*

329 IAC 9-1-41.1 "SARA" defined (Repealed)

Sec. 41.1. *(Repealed by Solid Waste Management Division; filed Aug 30, 2004, 9:35 a.m.: 28 IR 177)*

329 IAC 9-1-41.5 "SARA" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 41.5. "SARA" means the Superfund Amendments and Reauthorization Act of 1986, as amended, 42 U.S.C. 9601, et seq., in effect on September 30, 1996, that amends the Comprehensive Environmental Response, Compensation, and Liability Act of 1980. *(Solid Waste Management Division; 329 IAC 9-1-41.5; filed Aug 30, 2004, 9:35 a.m.: 28 IR 147)*

329 IAC 9-1-41.8 "Secondary containment" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-18-17-6; IC 13-23-3

Sec. 41.8. "Secondary containment" means a release detection system that meets the requirements of 329 IAC 9-7-4(7), but does not include an under-dispenser spill containment system. *(Solid Waste Management Division; 329 IAC 9-1-41.8; filed Aug 3, 2009, 1:48 p.m.: 20090902-IR-329080055FRA)*

329 IAC 9-1-42 "Septic tank" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 42. "Septic tank" means a water tight covered receptacle designed to receive or process, through liquid separation or biological digestion, the sewage discharged from a building sewer. The effluent from such receptacle is distributed for disposal through the soil. Settled solids and scum from the tank are pumped out periodically and hauled to a treatment facility. *(Solid Waste Management Division; 329 IAC 9-1-42; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1067; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3693; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535)*

329 IAC 9-1-42.1 "Source area" defined (Repealed)

Sec. 42.1. *(Repealed by Solid Waste Management Division; filed Aug 30, 2004, 9:35 a.m.: 28 IR 177)*

329 IAC 9-1-43 "Stormwater or wastewater collection system" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 43. "Stormwater or wastewater collection system" means piping, pumps, conduits, and any other equipment necessary to collect and transport the flow of:

(1) surface water run-off resulting from precipitation; or

(2) domestic, commercial, or industrial wastewater; to and from retention areas or any areas where treatment is designated to occur. The collection of stormwater and wastewater does not include treatment except where incidental to conveyance. (*Solid Waste Management Division; 329 IAC 9-1-43; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1067; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3694; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-1-44 "Surface impoundment" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2
Affected: IC 13-23

Sec. 44. "Surface impoundment" means a:

- (1) natural topographic depression;
- (2) manmade excavation; or
- (3) diked area formed primarily of earthen materials that may be lined with manmade materials;

that is not an injection well. (*Solid Waste Management Division; 329 IAC 9-1-44; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1067; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3694; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-1-45 "Tank" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2
Affected: IC 13-23

Sec. 45. "Tank" means a stationary device designed to contain an accumulation of regulated substances and constructed of nonearthen materials that may include any:

- (1) concrete;
- (2) steel; or
- (3) plastic;

that provides structural support. (*Solid Waste Management Division; 329 IAC 9-1-45; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1067; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3694; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-1-45.5 "Under-dispenser spill containment" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2
Affected: IC 13-18-17-6; IC 13-23-3

Sec. 45.5. (a) "Under-dispenser spill containment" means a device that is capable of preventing an unauthorized release from under the dispenser from entering the soil or ground water, or both.

(b) Under-dispenser spill containment must:

- (1) not allow liquid to penetrate on any side or bottom;
- (2) be compatible with the substance conveyed by the piping; and
- (3) allow for visual inspection and access to the components in the under-dispenser spill containment system.

(*Solid Waste Management Division; 329 IAC 9-1-45.5; filed Aug 3, 2009, 1:48 p.m.: 20090902-IR-329080055FRA*)

329 IAC 9-1-46 "Underground area" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2
Affected: IC 13-23

Sec. 46. "Underground area" means an underground room that may include any:

- (1) basement;
- (2) cellar;
- (3) shaft; or
- (4) vault;

that provides enough space for physical inspection of the exterior of the tank situated on or above the surface of the floor. (*Solid Waste Management Division; 329 IAC 9-1-46; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1067; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3694; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-1-47 "Underground release" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 47. "Underground release" means any release beneath the ground surface. (*Solid Waste Management Division; 329 IAC 9-1-47; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1068; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535; filed Aug 30, 2004, 9:35 a.m.: 28 IR 147*)

329 IAC 9-1-47.1 "Underground storage tank" or "UST" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-11-2-241

Sec. 47.1. "Underground storage tank" or "UST" has the meaning set forth in IC 13-11-2-241. (*Solid Waste Management Division; 329 IAC 9-1-47.1; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3694; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535; filed Aug 30, 2004, 9:35 a.m.: 28 IR 147*)

329 IAC 9-1-48 "Upgrade" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 48. "Upgrade" means the addition or retrofit of a system that may include any:

- (1) cathodic protection;
- (2) lining; or
- (3) spill and overfill controls;

to improve the ability of a UST system to prevent the release of product. (*Solid Waste Management Division; 329 IAC 9-1-48; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1068; errata, 16 IR 1955; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3694; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-1-49 "UST system" or "tank system" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 49. "UST system" or "tank system" means the following:

- (1) Underground storage tank.
- (2) Connected underground piping.
- (3) Underground ancillary equipment.
- (4) Containment system, if any.

(*Solid Waste Management Division; 329 IAC 9-1-49; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1068; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3695; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-1-50 "Wastewater treatment tank" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 50. "Wastewater treatment tank" means a tank that is designed to receive and treat an influent wastewater through:

- (1) physical;
- (2) chemical; or
- (3) biological methods.

(Solid Waste Management Division; 329 IAC 9-1-50; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1068; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3695; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535)

329 IAC 9-1-51 References to federal laws (Repealed)

Sec. 51. *(Repealed by Solid Waste Management Division; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3761)*

329 IAC 9-1-52 "Wellhead protection area" or "WHPA" defined

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 52. "Wellhead protection area" or "WHPA" has the meaning set forth in 327 IAC 8-4.1-1(27) under rules adopted by the water pollution control board. *(Solid Waste Management Division; 329 IAC 9-1-52; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3695; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535)*

Rule 2. Performance Standards

329 IAC 9-2-1 New UST systems

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-11-2-184; IC 13-23; IC 25-31-1

Sec. 1. In order to prevent releases due to structural failure, corrosion, or spills and overfills for as long as the UST system is used to store regulated substances, all owners and operators of new UST systems shall meet the following requirements:

(1) Each tank must be properly designed and constructed, and any portion underground that routinely contains product must be protected from corrosion as specified under one (1) of the following:

(A) The tank is constructed of fiberglass-reinforced plastic and meets one (1) of the following:

(i) Underwriters Laboratories Standard 1316, "Glass-Fiber-Reinforced Plastic Underground Storage Tanks for Petroleum Products, Alcohol, and Alcohol-Gasoline Mixtures", revised 1996, Underwriters Laboratories Inc., 333 Pfingsten Road, Northbrook, Illinois 60062.

(ii) Underwriters Laboratories of Canada CAN/ULC-S615-1998, "Standard for Reinforced Plastic Underground Tanks for Flammable and Combustible Liquids", 1998, Underwriters Laboratories of Canada, 7 Crouse Road, Scarborough, Ontario, M1R 3A9 Canada.

(iii) ASTM D4021-86, "Standard Specification for Glass-Fiber-Reinforced Polyester Underground Petroleum Storage Tanks", revised 1992, American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, Pennsylvania 19428-2959.

(B) The tank is constructed of steel and cathodically protected in the following manner:

(i) The tank is:

(AA) coated with a suitable dielectric material; and

(BB) cathodically protected.

(ii) Field-installed impressed current systems are designed by a corrosion expert to allow determination of current operating status under 329 IAC 9-3.1-2(3).

(iii) Cathodic protection systems are operated and maintained under 329 IAC 9-3.1-2.

(iv) The tank complies with one (1) or more of the following:

(AA) Steel Tank Institute "sti-P₃® Specification and Manual for External Corrosion Protection of Underground Steel Storage Tanks", STI-P3-98, revised 1998, Steel Tank Association, 570 Oakwood Road, Lake Zurich, Illinois 60047.

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- (BB) Underwriter Laboratories Standard 1746, "External Corrosion Protection Systems for Steel Underground Storage Tanks", 2000, Underwriters Laboratories Inc., 333 Pfingsten Road, Northbrook, Illinois 60062.
- (CC) Underwriters Laboratories of Canada CAN/ULC-S603-92, "Standards for Steel Underground Tanks for Flammable and Combustible Liquids", 1992, Underwriters Laboratories of Canada, 7 Crouse Road, Scarborough, Ontario, M1R 3A9 Canada.
- (DD) Underwriter Laboratories of Canada CAN/ULC-S603.1-92, "Standard for Galvanic Corrosion Protection Systems for Steel Underground Tanks for Flammable and Combustible Liquids", 1992, Underwriters Laboratories of Canada, 7 Crouse Road, Scarborough, Ontario, M1R 3A9 Canada.
- (EE) Underwriters Laboratories of Canada CAN4-S631-M84, "Isolating Bushings for Steel Underground Tanks Protected with Coatings and Galvanic Systems", 1992, Underwriters Laboratories of Canada, 7 Crouse Road, Scarborough, Ontario, M1R 3A9 Canada.
- (FF) NACE International (formerly the National Association of Corrosion Engineers) Standard RP0285-95, "Corrosion Control of Underground Storage Tank Systems by Cathodic Protection", revised 1995, NACE International, P.O. Box 218340, Houston, Texas 77218-8340.
- (GG) Underwriters Laboratories Standard 58, "Steel Underground Tanks for Flammable and Combustible Liquids", 1998, Underwriters Laboratories Inc., 333 Pfingsten Road, Northbrook, Illinois 60062.
- (C) The tank is constructed of a steel-fiberglass-reinforced-plastic composite and complies with one (1) or more of the following:
- (i) Underwriters Laboratories Standard 1746, "External Corrosion Protection Systems for Steel Underground Storage Tanks", 2000, Underwriters Laboratories Inc., 333 Pfingsten Road, Northbrook, Illinois 60062.
 - (ii) Association for Composite Tanks ACT-100®, "Specification for External Corrosion Protection of FRP Composite Steel USTs, F894-98", revised 1998, Steel Tank Association, 570 Oakwood Road, Lake Zurich, Illinois 60047.
- (D) The tank is constructed of metal without additional corrosion protection measures provided that the following requirements are completed:
- (i) The tank is installed at a site that is determined by a corrosion expert not to be corrosive enough to cause it to have a release due to corrosion during its operating life.
 - (ii) The owner and operator shall demonstrate that soil resistivity in an installation location is twelve thousand (12,000) ohms per centimeter or greater by using one (1) of the following:
 - (AA) ASTM Standard G57-95a, "Standard Test Method for Field Measurement of Soil Resistivity Using the Wenner Four-Electrode Method", revised 1995, reapproved 2001. American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, Pennsylvania 19428-2959.
 - (BB) A standard approved by the commissioner that exhibits the same or greater degree of reliability and accuracy as ASTM Standard G57-95a cited in subitem (AA).
 - (iii) The owner and operator shall maintain records that demonstrate compliance with items (i) and (ii) for the remaining life of the tank.
- (E) The tank construction and corrosion protection are determined by the commissioner to be designed to prevent the release or threatened release of any stored regulated substance in a manner that is no less protective of human health and the environment than clauses (A) through (D).
- (2) The piping that routinely contains regulated substances and is in contact with the ground must be properly designed, constructed, and protected from corrosion. The piping that routinely contains regulated substances and is in contact with the ground must be properly designed, constructed, and protected from corrosion as specified under one (1) of the following:
- (A) The piping is constructed of fiberglass-reinforced plastic and complies with one (1) or more of the following:
 - (i) Underwriters Laboratories Standard 971, "Nonmetallic Underground Piping for Flammable Liquids", 1995, Underwriters Laboratories Inc., 333 Pfingsten Road, Northbrook, Illinois 60062.
 - (ii) Underwriters Laboratories Standard 567, revised 2001, "Pipe Connectors for Petroleum Products and LP Gas", Underwriters Laboratories Inc., 333 Pfingsten Road, Northbrook, Illinois 60062.
 - (iii) Underwriters Laboratories of Canada Subject CAN/ORD-C 107.7-1993 "Glass Fibre Reinforced Plastic Pipe

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- and Fittings for Flammable and Combustible Liquids", 1993 First Edition, Underwriters Laboratories of Canada, 7 Crouse Road, Scarborough, Ontario, M1R 3A9 Canada.
- (iv) Underwriters Laboratories of Canada Standard CAN/ULC-S633-99, "Flexible Underground Hose Connectors for Flammable and Combustible Liquids", 1999, Underwriters Laboratories of Canada, 7 Crouse Road, Scarborough, Ontario, M1R 3A9 Canada.
- (B) The piping is constructed of steel and cathodically protected in the following manner:
- (i) The piping is:
 - (AA) coated with a suitable dielectric material; and
 - (BB) cathodically protected.
 - (ii) Field-installed impressed current systems are designed by a corrosion expert to allow determination of current operating status under 329 IAC 9-3.1-2(3).
 - (iii) Cathodic protection systems are operated and maintained under 329 IAC 9-3.1-2.
 - (iv) The piping system meets one (1) or more of the following:
 - (AA) "Flammable and Combustible Liquids", of the Indiana Fire Code under rules of the fire prevention and building safety commission at 675 IAC 22.
 - (BB) American Petroleum Institute Recommended Practice 1615, "Installation of Underground Petroleum Storage Systems", Fifth Edition, March 1996, American Petroleum Institute, 1220 L Street NW, Washington, D.C. 20005-4070.
 - (CC) American Petroleum Institute Recommended Practice 1632, "Cathodic Protection of Underground Petroleum Storage Tanks and Piping Systems", Third Edition, May 1996, American Petroleum Institute, 1220 L Street NW, Washington, D.C. 20005-4070.
 - (DD) Nace International (formerly the National Association of Corrosion Engineers) Standard RP0169-96, "Control of External Corrosion on Underground or Submerged Metallic Piping Systems", 1996 Edition, NACE International, P.O. Box 218340, Houston, Texas 77218-8340.
- (C) The piping is constructed of metal without additional corrosion protection measures provided that the following requirements are completed:
- (i) The piping is installed at a site that is determined by a corrosion expert not to be corrosive enough to cause it to have a release due to corrosion during its operating life.
 - (ii) The owner and operator shall demonstrate that soil resistivity in an installation location is twelve thousand (12,000) ohms per centimeter or greater by using one (1) of the following:
 - (AA) ASTM Standard G57-95a, "Standard Test Method for Field Measurement of Soil Resistivity Using the Wenner Four-Electrode Method", revised 1995, reapproved 2001. American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, Pennsylvania 19428-2959.
 - (BB) A standard approved by the commissioner that exhibits the same or greater degree of reliability and accuracy as ASTM Standard G57-95a cited in subitem (AA).
 - (iii) The piping complies with one (1) or more of the following:
 - (AA) "Flammable and Combustible Liquids", of the Indiana Fire Code under rules of the fire prevention and building safety commission at 675 IAC 22.
 - (BB) Nace International (formerly the National Association of Corrosion Engineers) Standard RP0169-96, "Control of External Corrosion on Underground or Submerged Metallic Piping Systems", 1996 Edition, NACE International, P.O. Box 218340, Houston, Texas 77218-8340.
 - (iv) The owner and operator shall maintain records that demonstrate compliance with items (i) and (ii) for the remaining life of the piping.
- (D) Notwithstanding the requirements in section 1.1 of this rule, all connected piping, installed or replaced after the effective date of the 2009 amendments to this rule, must be equipped with secondary containment, and the connected piping and secondary containment must meet the following standards:
- (i) Contain regulated substances released from the piping until the regulated substance can be detected and removed.
 - (ii) Prevent the release of regulated substances to the environment at any time during the operational life of the

piping.

- (iii) Be checked for evidence of a release by:
 - (AA) being monitored for releases at least every thirty (30) days; and
 - (BB) pressure testing upon installation, again six (6) months after installation, and every thirty-six (36) months thereafter.
- (iv) Be interstitially monitored and the interstitial monitoring device must be located in the interstitial space between the walls and meet the following as appropriate:
 - (AA) The interstitial space is under a vacuum or pressure.
 - (BB) The interstitial space is liquid-filled.
 - (CC) The interstitial space is monitored continually.
- (v) Was or will be installed, calibrated, operated, and maintained in accordance with the manufacturer's instructions, including routine maintenance and service checks for operability and running conditions.
- (vi) Monitoring devices between the inner and outer barriers of the piping can detect a leak or release of product from the primary barrier.
- (vii) Meets the standard Underwriters Laboratory Standard 971, "Nonmetallic Underground Piping for Flammable Liquids", 1995, Underwriters Laboratories, Inc., 333 Pfingsten Road, Northbrook, Illinois 60062.
- (viii) Is either of the following:
 - (AA) Connected piping is one hundred percent (100%) secondarily contained.
 - (BB) Secondarily contained piping with single-walled piping ends that terminate in tank and dispenser sumps.
- (ix) Include one (1) of the following:
 - (AA) Double-walled piping that consists of an outer wall constructed of a dielectric material.
 - (BB) Vaulted piping.
- (x) After the effective date of the 2009 amendments to this rule, any construction design releases:
 - (AA) that were issued by the department of homeland security, division of fire and building safety under rules of the fire prevention and building safety commission at 675 IAC 12-12; and
 - (BB) where construction has not commenced;

must be amended to include secondary containment of connected piping that meets all the standards of this subdivision and resubmitted for release by the department of homeland security, division of fire and building safety. For purposes of this item, "release" does not have the meaning as specified in IC 13-11-2-184.

(E) The piping construction and corrosion protection are determined by the commissioner to be designed to prevent the release or threatened release of any stored regulated substance in a manner that is no less protective of human health and the environment than the requirements of clauses (A) through (D).

(3) The following spill and overfill requirements must be completed:

- (A) Except as provided in clause (B), the owner and operator shall use the following spill and overfill prevention equipment to prevent spilling and overfilling associated with product transfer to the UST system:
 - (i) Spill prevention equipment that prevents the release of product to the environment when the transfer hose is detached from the fill pipe as one (1) of the following:
 - (AA) Minimum five (5) gallon spill catchment basin with drain to tank.
 - (BB) Minimum twenty-five (25) gallon spill catchment basin without drain to tank.
 - (ii) Overfill prevention equipment that completes one (1) of the following:
 - (AA) Automatically shuts off flow into the tank when the tank is not more than ninety-five percent (95%) full.
 - (BB) Alerts the transfer operator when the tank is not more than ninety percent (90%) full by restricting the flow into the tank or triggering a high level alarm.
 - (CC) Restricts flow thirty (30) minutes prior to overfilling, alerts the transfer operator with a high level alarm one (1) minute before overfilling, or automatically shuts off flow into the tank so that none of the fittings located on top of the tank are exposed to product due to overfilling.
- (B) The owner and operator are not required to use the spill and overfill prevention equipment specified in clause (A)

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if one (1) of the following is completed:

- (i) Alternative equipment is used that is determined by the commissioner to be not less protective of human health and the environment than the equipment specified in clause (A).
- (ii) The UST system is filled by transfers of not more than twenty-five (25) gallons at one (1) time.
- (C) A drop tube for deliveries must extend to within one (1) foot of the tank bottom.
- (4) Under-dispenser containment, as defined in 329 IAC 9-1-45.5, is required for the following:
 - (A) Any new motor fuel dispenser installed at a new underground storage tank facility.
 - (B) Any new motor fuel dispenser installed at a new location at an existing underground storage tank facility.
 - (C) Any replaced motor fuel dispenser installed at an existing underground storage tank facility where the replaced piping or equipment is added to the underground storage tank system to connect the replaced dispenser to the existing system.
- (5) All tanks and piping must be installed properly in accordance with one (1) or more of the following:
 - (A) American Petroleum Institute Recommended Practice 1615, "Installation of Underground Petroleum Storage Systems", Fifth Edition, March 1996, American Petroleum Institute, 1220 L Street NW, Washington, D.C. 20005-4070.
 - (B) Petroleum Equipment Institute Publication PEI/RP100-2000, "Recommended Practices for Installation of Underground Liquid Storage Systems", 2000, Petroleum Equipment Institute, P.O. Box 2380, Tulsa, Oklahoma 74101-2380.
 - (C) American National Standards Institute Standard ANSI/ASME B31.3-1999, "Process Piping", 1999, American National Standards Institute, 11 West 42nd Street, New York, New York 10036.
 - (D) American National Standards Institute Standard ANSI/ASME B31.4-1998 Edition, "Pipeline Transportation Systems for Liquid Hydrocarbons and Other Liquids", 1998, American National Standards Institute, 11 West 42nd Street, New York, New York 10036.
- (6) The owner and operator shall ensure the following:
 - (A) The installer has been certified by the department of homeland security, division of fire and building safety under rules of the fire prevention and building safety commission at 675 IAC 12-12.
 - (B) One (1) or more of the following methods of certification, testing, or inspection is used to demonstrate compliance with subdivision (4):
 - (i) The installer has been certified by the tank and piping manufacturers.
 - (ii) The installation has been inspected and certified by a registered professional engineer under IC 25-31-1 with education and experience in UST system installation.
 - (iii) The installation has been inspected and approved by one (1) of the following:
 - (AA) The agency.
 - (BB) The department of homeland security, division of fire and building safety.
 - (iv) The owner and operator have complied with another method for ensuring compliance with subdivision (4) that is determined by the commissioner to be not less protective of human health and the environment.
 - (C) The owner and operator shall provide a certification of compliance on the notification form under section 2 of this rule.

(Solid Waste Management Division; 329 IAC 9-2-1; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1068; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3695; errata filed Sep 10, 1999, 9:08 a.m.: 23 IR 26; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535; filed Aug 30, 2004, 9:35 a.m.: 28 IR 148; filed Aug 3, 2009, 1:48 p.m.: 20090902-IR-329080055FRA)

329 IAC 9-2-1.1 New UST systems within a one (1) year time of travel to a community public water supply well

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-18-17-6; IC 13-23-3

Sec. 1.1. (a) This section applies to a new UST system that is installed within a one (1) year time of travel (TOT) to a community public water supply system (CPWSS) well as defined in rules of the water pollution control board at 327 IAC 8-4.1-1(5) and where the appropriate person has been provided notice of the establishment of the WPHA as provided in IC 13-18-17-6(d).

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The one (1) year TOT as defined in rules of the water pollution control board at 327 IAC 8-4.1-1(25) is one (1) of the following:

- (1) The one (1) year TOT established as part of a wellhead protection area (WHPA) that is delineated and approved in accordance with rules of the water pollution control board at 327 IAC 8-4.1.
- (2) A fixed radius of one thousand five hundred (1,500) feet from the CPWSS well if, at the time of installation of the UST system, there has not been a one (1) year TOT established for that CPWSS as part of a WHPA that is delineated and approved in accordance with rules of the water pollution control board at 327 IAC 8-4.1.
- (b) A new UST system that is installed in a one (1) year TOT under subsection (a) must meet the following requirements:
 - (1) An underground storage tank that is installed in a one (1) year TOT must be constructed with one (1) of the following secondary containment systems:

- (A) A double-walled tank with a monitoring device that:
 - (i) must be located in the interstitial space between the walls; and
 - (ii) is installed, calibrated, operated, and maintained in accordance with the manufacturer's instructions, including routine maintenance and service checks for operability or running condition.
- (B) A secondary barrier system that meets the following requirements:
 - (i) The secondary barrier around the underground storage tank consists of artificially constructed material that is sufficiently thick and impermeable (no more than 1×10^{-6} centimeters per second for water) to direct a release to an observation well and allow its detection.
 - (ii) The barrier is compatible with the regulated substance stored so that a release from the UST system will not cause a deterioration of the barrier allowing a release to pass through undetected.
 - (iii) For cathodically protected tanks, the secondary barrier must be installed so that the secondary barrier does not interfere with the proper operation of the cathodic protection system.
 - (iv) The site is assessed to ensure that the secondary barrier is always above the ground water and not in a twenty-five (25) year flood plain unless the barrier and observation well designs are for use under such conditions.
 - (v) For a single-walled tank, an observation well that meets the following requirements must be located in the excavation zone of the tank:
 - (AA) The observation well must be clearly marked and secured to prevent damage and unauthorized access and tampering.
 - (BB) The slotted portion of the observation well casing must be designed to prevent migration of natural soils or filter pack into the well and to allow entry of regulated substance on the accumulated water into the well under both high and low water conditions.
 - (CC) The observation well must be sealed from the ground surface to the top of the filter pack.
 - (DD) The continuous monitoring devices or manual methods used can detect the presence of at least one-eighth (C) of an inch of free product on top of the accumulated water in the observation well.
 - (EE) At least one (1) observation well must be placed downgradient of the underground storage tank or at the lowest point of the underground storage tank excavation zone.
 - (vi) The observation well must be monitored at least one (1) time every thirty (30) days for a release.
 - (vii) The secondary barrier system is installed, calibrated, operated, and maintained in accordance with the manufacturer's instructions, including routine maintenance and service checks for operability or running condition.

- (C) Other methods approved by the commissioner for secondary containment that provide substantially equal environmental protection.

(2) Piping installation in a one (1) year TOT must be constructed with one (1) of the following secondary containment systems:

- (A) Double-walled piping with a monitoring device that:
 - (i) must be located in the interstitial space between the walls; and
 - (ii) is installed, calibrated, operated, and maintained in accordance with the manufacturer's instructions, including routine maintenance and service checks for operability or running condition.
- (B) A secondary barrier system that meets the following requirements:

- (i) The secondary barrier around the piping consists of artificially constructed material that is sufficiently thick and impermeable (no more than 1×10^{-6} centimeters per second for water) to direct a release to an observation well and allow its detection.
- (ii) The barrier is compatible with the regulated substance stored so that a release from the UST system will not cause a deterioration of the barrier allowing a release to pass through undetected.
- (iii) For cathodically protected piping, the secondary barrier must be installed so that the secondary barrier does not interfere with the proper operation of the cathodic protection system.
- (iv) The site is assessed to ensure that the secondary barrier is always above the ground water and not in a twenty-five (25) year flood plain unless the barrier and observation well designs are for use under such conditions.
- (v) For single-walled piping, an observation well that meets the following requirements must be located in the excavation zone of the piping:
 - (AA) The observation well must be clearly marked and secured to prevent damage and unauthorized access and tampering.
 - (BB) The slotted portion of the observation well casing must be designed to prevent migration of natural soils or filter pack into the well and to allow entry of regulated substance on the accumulated water into the well under both high and low water conditions.
 - (CC) The observation well must be sealed from the ground surface to the top of the filter pack.
 - (DD) The continuous monitoring devices or manual methods used can detect the presence of at least one-eighth (C) of an inch of free product on top of the accumulated water in the observation well.
 - (EE) At least one (1) observation well must be placed downgradient of the piping or at the lowest point of the piping excavation zone.
- (vi) The observation well must be monitored at least one (1) time every thirty (30) days for a release.
- (vii) The secondary barrier system is installed, calibrated, operated, and maintained in accordance with the manufacturer's instructions, including routine maintenance and service checks for operability or running condition.
- (C) Other methods approved by the commissioner for secondary containment that provide substantially equal environmental protection.

(Solid Waste Management Division; 329 IAC 9-2-1.1; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3698; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535)

329 IAC 9-2-2 Notification requirements

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2
Affected: IC 13-23-3

Sec. 2. (a) All notifications required to be submitted under this section must be submitted on a form and in a format prescribed by the commissioner.

(b) Any person who owns an UST system or tank shall, within thirty (30) days of owning such an UST system or tank or bringing such tank or UST system into use, submit notice to the agency to register the tank or UST system. Bringing a tank or UST system "into use" means the tank or UST system contains or has:

- (1) contained a regulated substance; and
- (2) not been closed under 329 IAC 9-6.

(c) An owner required to submit notice under this section shall provide notice for each tank the owner owns. The owner may provide notice for several tanks at one (1) location using one (1) form. An owner with tanks located in more than one (1) place of operation shall submit a separate notification form for each separate place of operation.

(d) An owner required to submit notice under this section shall provide all the information required by the form provided by the agency for each tank for which notice is submitted.

(e) All owners and operators of new or replaced UST systems shall certify, on each notification form submitted, with original signature in ink, compliance with the following requirements:

- (1) Installation of all tanks and piping under section 1(5) of this rule.
- (2) Cathodic protection of steel tanks and piping under section 1(1) and 1(2) of this rule.
- (3) Release detection under 329 IAC 9-7-2 and 329 IAC 9-7-3.
- (4) Financial responsibility under 329 IAC 9-8.
- (f) All owners and operators of UST systems shall ensure that whoever performs tank system:
 - (1) installations;
 - (2) testing;
 - (3) upgrades;
 - (4) closures;
 - (5) removals; and
 - (6) change-in-service;

is certified by the department of homeland security, division of fire and building safety. The certified person who performs the work shall certify, by original signature in ink on the notification form provided by the agency, that the work performed complies with methods specified by section 1(4) of this rule.

(g) All owners and operators of UST systems who upgrade the tank system to meet upgrade requirements under 329 IAC 9-2.1 shall, within thirty (30) days of completing the upgrade, submit notice of the upgrade to the agency.

- (h) All owners and operators of UST systems who:
 - (1) temporarily close a tank system under 329 IAC 9-6-5; or
 - (2) close a tank system under 329 IAC 9-6-1;

shall, within thirty (30) days of completing such action, submit notice of this action to the agency.

(i) All owners and operators of UST systems who install a method of release detection under 329 IAC 9-7-2 and 329 IAC 9-7-3 shall, within thirty (30) days of completing such action, submit notice of this action to the agency.

- (j) Any person who sells a facility with a regulated underground storage tank that:
 - (1) is being used as an UST system; or
 - (2) will be used as an UST system;

shall notify the purchaser of such tank of the owner's obligation to submit notice under subsection (b).

- (k) An owner and operator of an UST system that is:
 - (1) in the ground on or after May 8, 1986; and
 - (2) not taken out of operational life on or before January 1, 1974;

shall notify the agency of the service status of the UST system under 42 U.S.C. 6991a of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act, as amended, 42 U.S.C. 6901, et seq., in effect on September 30, 1996, on a form provided by the agency for this notification. (*Solid Waste Management Division; 329 IAC 9-2-2; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1068; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3699; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535; filed Aug 30, 2004, 9:35 a.m.: 28 IR 150; errata filed Oct 7, 2004, 11:55 a.m.: 28 IR 608; filed Aug 3, 2009, 1:48 p.m.: 20090902-IR-329080055FRA*)

Rule 2.1. Upgrading of Existing UST Systems

329 IAC 9-2.1-1 Upgrading of existing UST systems

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23-3

Sec. 1. (a) All existing UST systems shall comply with one (1) of the following requirements no later than December 22, 1998:

- (1) New UST system performance standards under 329 IAC 9-2-1.
- (2) The upgrading requirements under subsections (b) through (d).
- (3) Closure requirements under 329 IAC 9-6, including applicable requirements for corrective action under 329 IAC 9-5.
- (b) A steel tank must be upgraded to meet one (1) of the following requirements:
 - (1) A tank is upgraded by cathodic protection and the cathodic protection system meets the requirements of 329 IAC 9-2-1(1)(B)(ii) and 329 IAC 9-2-1(1)(B)(iii), and the integrity of the tank is ensured using one (1) of the following methods:

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- (A) The tank is internally inspected and assessed to ensure that the tank is structurally sound and free of corrosion holes prior to installing the cathodic protection system.
 - (B) The tank has been installed for less than ten (10) years and is monitored monthly for releases under 329 IAC 9-7-4(4) through 329 IAC 9-7-4(8).
 - (C) The tank has been installed for less than ten (10) years and is assessed for corrosion holes by conducting two (2) tightness tests under 329 IAC 9-7-4(3) as follows:
 - (i) The first tightness test must be conducted prior to installing the cathodic protection system.
 - (ii) The second tightness test must be conducted between three (3) months and six (6) months following the first operation of the cathodic protection system.
 - (D) The tank is assessed for corrosion holes by a method that is determined by the commissioner to prevent releases in a manner that is no less protective of human health and the environment than established in clauses (A) through (C).
- (2) A tank is upgraded by internal lining and the following requirements are completed:
- (A) The lining is installed under 329 IAC 9-3.1-4.
 - (B) Within one (1) year after lining and every five (5) years thereafter, the lining and tank are internally inspected and found to be structurally sound with the lining and tank still performing in accordance with requirements under 329 IAC 9-3.1-4.
 - (C) The tank may be lined one (1) time during the service life to meet the upgrading requirements of this subsection.
 - (D) If the lined tank cannot meet the performance standards under clause (B), closure of the tank according to 329 IAC 9-6 is required.
- (3) A tank is upgraded by both internal lining and cathodic protection, and the following requirements are completed:
- (A) The lining is installed under 329 IAC 9-3.1-4.
 - (B) The cathodic protection system meets the requirements of 329 IAC 9-2-1(1)(B)(ii) and 329 IAC 9-2-1(1)(B)(iii).
- (4) A tank is upgraded by a method that is determined by the commissioner to be no less protective of human health and the environment than the methods specified in subdivisions (1) through (3).
- (5) The tank must comply with one (1) or more of the following:
- (A) American Petroleum Institute Recommended Practice 1631, "Interior Lining and Periodic Inspections of Underground Storage Tanks", Fifth Edition, June 2001, American Petroleum Institute, 1220 L Street NW, Washington, D.C. 20005-4070.
 - (B) Nace International (formerly the National Association of Corrosion Engineers) Standard RP0285-95, "Corrosion Control of Underground Storage Tank Systems by Cathodic Protection", revised 1995, NACE International, P.O. Box 218340, Houston, Texas 77218-8340.
 - (C) American Petroleum Institute Recommended Practice 1632, "Cathodic Protection of Underground Petroleum Storage Tanks and Piping Systems", Third Edition, May 1996, American Petroleum Institute, 1220 L Street NW, Washington, D.C. 20005-4070.
 - (D) National Leak Prevention Association Standard 631, "Spill Prevention, Minimum 10 Year Life of Existing Steel Underground Storage Tanks by Lining Without the Addition of Cathodic Protection", revised 1992, National Leak Prevention Association, Route 2, Box 106A, Falmouth, Kentucky 41040.
- (c) Metal piping that routinely contains regulated substances and is in contact with the ground must meet the following:
- (1) Be cathodically protected in accordance with one (1) or more of the following:
- (A) "Flammable and Combustible Liquids", of the Indiana Fire Code, 675 IAC 22.
 - (B) American Petroleum Institute Recommended Practice 1615, "Installation of Underground Petroleum Storage Systems", Fifth Edition, March 1996, American Petroleum Institute, 1220 L Street NW, Washington, D.C. 20005-4070.
 - (C) American Petroleum Institute Recommended Practice 1632, "Cathodic Protection of Underground Petroleum Storage Tanks and Piping Systems", Third Edition, May 1996, American Petroleum Institute, 1220 L Street NW, Washington, D.C. 20005-4070.
 - (D) Nace International (formerly the National Association of Corrosion Engineers) Standard RP0169-96, "Control of External Corrosion on Underground or Submerged Metallic Piping Systems", 1996 Edition, NACE International,

P.O. Box 218340, Houston, Texas 77218-8340.

(2) Meet the requirements of 329 IAC 9-2-1(2)(B)(ii) and 329 IAC 9-2-1(2)(B)(iii).

(d) All existing UST systems shall comply with the new UST system spill and overfill prevention equipment requirements under 329 IAC 9-2-1(3) and 329 IAC 9-3.1-1 to prevent spilling and overfilling associated with product transfer to the UST system.

(e) The owner and operator shall demonstrate compliance with this section by providing a certification of compliance on the notification form under 329 IAC 9-2-2. The certification must demonstrate that the person that performs the work has been certified by the office of the state fire marshal. (*Solid Waste Management Division; 329 IAC 9-2.1-1; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3700; filed Aug 30, 2004, 9:35 a.m.: 28 IR 151*)

Rule 3. Reporting and Record Keeping

329 IAC 9-3-1 Reporting and record keeping

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 1. (a) The owner and operator of an UST system shall cooperate fully with inspections, monitoring, and testing conducted by the agency, as well as requests for document submission, testing, and monitoring by the owner or operator under Section 9005 (42 U.S.C. 6991d) of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act, as amended, 42 U.S.C. 6901, et seq., in effect on September 30, 1996.

(b) The owner and operator shall submit the following information to the agency:

(1) Notification for all UST systems under 329 IAC 9-2-2 that includes the following:

(A) Certification of installation for new UST systems under 329 IAC 9-2-1(5).

(B) Locational information within an accuracy of 1:24,000, plus or minus forty (40) feet, or plus or minus twelve and two-tenths (12.2) meters in any of the following formats, if known:

(i) Universal transverse mercator (UTM) coordinates.

(ii) Latitude and longitude coordinates.

(iii) UTM coordinates and latitude and longitude coordinates.

(2) Reports of all releases, including the following:

(A) Suspected releases under 329 IAC 9-4-1.

(B) Spills and overfills under 329 IAC 9-4-4.

(C) Confirmed releases under 329 IAC 9-5-2.

(3) Corrective actions planned or taken, including the following:

(A) Free product removal under 329 IAC 9-5-4.2.

(B) Initial abatement measures under 329 IAC 9-5-3.2.

(C) Initial site characterization under 329 IAC 9-5-5.1.

(D) Investigation of soil and ground water cleanup under 329 IAC 9-5-6.

(E) Corrective action plan under 329 IAC 9-5-7.

(4) A notification upon completion of all upgrade activities under 329 IAC 9-2.1.

(5) A notification before closure or change-in-service under 329 IAC 9-6-1.

(6) A notification upon completion of:

(A) temporary closure under 329 IAC 9-6-5; or

(B) closure or change-in-service under 329 IAC 9-6-1 and 329 IAC 9-6-2.5.

(7) A notification upon completion of the installation of a method of release detection under 329 IAC 9-7-2 and 329 IAC 9-7-3.

(8) Results of the site investigation conducted at closure or change-in-service under 329 IAC 9-6-4.

(9) Documentation supporting the suitability of the underground storage tank to be upgraded with cathodic protection. The documentation must be submitted within thirty (30) days after the determination is completed under 329 IAC 9-2.1-1(b)(1). The documentation must include a signed affidavit from the corrosion expert who designed the field-installed cathodic protection system.

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- (10) Documentation supporting the suitability of the underground storage tank to be upgraded with an internal lining. The documentation must be submitted within thirty (30) days after the determination is completed under 329 IAC 9-2.1-1(b)(2).
- (11) Documentation supporting the suitability of the underground storage tank to be upgraded with an internal lining combined with cathodic protection. The documentation must be submitted within thirty (30) days after the determination is completed under 329 IAC 9-2.1-1(b)(3). The documentation also must include the following:
- (A) A report of the condition of the underground storage tank prior to lining that includes the following:
 - (i) A diagram showing the location and size of any repair necessary to the interior of the underground storage tank prior to lining.
 - (ii) A diagram showing the location and size of any repair necessary to the exterior of the underground storage tank prior to cathodic protection.
 - (iii) Documentation showing the tank has met both thickness and tank deflection criteria specified in the publications for upgrades under clause (B).
 - (B) The suitability of the tank for lining must meet the following requirements:
 - (i) American Petroleum Institute Recommended Practice 1631, "Interior Lining and Periodic Inspections of Underground Storage Tanks", Fifth Edition, June 2001, American Petroleum Institute, 1220 L Street NW, Washington, D.C. 20005-4070.
 - (ii) Nace International (formerly the National Association of Corrosion Engineers) Standard RP0285-95, "Corrosion Control of Underground Storage Tank Systems by Cathodic Protection", revised 1995, NACE International, P.O. Box 218340, Houston, Texas 77218-8340.
 - (iii) American Petroleum Institute Recommended Practice 1632, "Cathodic Protection of Underground Petroleum Storage Tanks and Piping Systems", Third Edition, May 1996, American Petroleum Institute, 1220 L Street NW, Washington, D.C. 20005-4070.
- (12) Documentation of operation and maintenance of corrosion protection equipment under 329 IAC 9-3.1-2. The results of the postinstallation cathodic protection:
- (A) test for a galvanic cathodic protection system; and
 - (B) inspection for an impressed current cathodic protection system;
- must be submitted within thirty (30) days after the test or inspection is completed for a new UST system and an upgraded UST system.
- (13) Documentation supporting the suitability of the excavation zone for the proper function of:
- (A) vapor observation wells under 329 IAC 9-7-4(5); and
 - (B) ground water observation wells under 329 IAC 9-7-4(6);
- as a method of release detection. The documentation must be submitted within thirty (30) days after the observation wells installation is completed for a new UST system and an upgraded UST system.
- (14) Documentation supporting the suitability of the excavation zone to support a secondary barrier in the excavation zone as a method of release detection under 329 IAC 9-7-4(7)(B). The documentation must be submitted within thirty (30) days after the installation of the secondary barrier is completed for a new UST system and an upgraded UST system.
- (15) Documentation supporting the suitability of the secondary barrier as a method of release detection under 329 IAC 9-7-4(7)(B). The documentation must be submitted within thirty (30) days after the installation of the secondary barrier is completed for a new UST system and an upgraded UST system.
- (c) The owner and operator shall maintain the following information:
- (1) Documentation of operation and maintenance of corrosion protection equipment under 329 IAC 9-3.1-2. The results of the postinstallation cathodic protection:
 - (A) test for a galvanic cathodic protection system; and
 - (B) inspection for an impressed current cathodic protection system;must be maintained under subsections (d) and (e) within thirty (30) days after the test or inspection is completed for a new UST system and an upgraded UST system.
 - (2) Documentation of UST system repairs under 329 IAC 9-3.1-4(b)(6).
 - (3) Documentation of compliance with release detection requirements under this section.
 - (4) Results of the site investigation conducted at closure under 329 IAC 9-6-4.

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- (5) Documentation supporting the suitability of the underground storage tank to be upgraded with cathodic protection. The documentation must be maintained under subsections (d) and (e) within thirty (30) days after the determination is completed under 329 IAC 9-2.1-1(b)(1). The documentation must include a signed affidavit from the corrosion expert who designed the field-installed cathodic protection system.
- (6) Documentation supporting the suitability of the underground storage tank to be upgraded with an internal lining. The documentation must be maintained under subsections (d) and (e) within thirty (30) days after the determination is completed under 329 IAC 9-2.1-1(b)(2).
- (7) Documentation supporting the suitability of the underground storage tank to be upgraded with an internal lining combined with cathodic protection. The documentation must be maintained under subsections (d) and (e) within thirty (30) days after the determination is completed under 329 IAC 9-2.1-1(b)(3). The documentation also must include the following:
- (A) A report of the condition of the underground storage tank prior to lining that includes the following:
 - (i) A diagram showing the location and size of any repair necessary to the interior of the underground storage tank prior to lining.
 - (ii) A diagram showing the location and size of any repair necessary to the exterior of the underground storage tank prior to cathodic protection.
 - (iii) Documentation showing the tank has met both thickness and tank deflection criteria specified in the publications for upgrades under clause (B).
 - (B) A signed certification by a corrosion expert indicating the suitability of the tank for lining under the following:
 - (i) American Petroleum Institute Recommended Practice 1631, "Interior Lining and Periodic Inspections of Underground Storage Tanks", Fifth Edition, June 2001, American Petroleum Institute, 1220 L Street NW, Washington, D.C. 20005-4070.
 - (ii) Nace International (formerly the National Association of Corrosion Engineers) Standard RP0285-95, "Corrosion Control of Underground Storage Tank Systems by Cathodic Protection", revised 1995, NACE International, P.O. Box 218340, Houston, Texas 77218-8340.
 - (iii) American Petroleum Institute Recommended Practice 1632, "Cathodic Protection of Underground Petroleum Storage Tanks and Piping Systems", Third Edition, May 1996, American Petroleum Institute, 1220 L Street NW, Washington, D.C. 20005-4070.
- (8) Documentation supporting the suitability of the excavation zone for the proper function of:
- (A) vapor observation wells under 329 IAC 9-7-4(5); and
 - (B) ground water observation wells under 329 IAC 9-7-4(6);
- as a method of release detection. The documentation must be maintained under subsections (d) and (e) within thirty (30) days after the observation wells installation is completed for a new UST system and an upgraded UST system.
- (9) Documentation supporting the suitability of the excavation zone to support a secondary barrier in the excavation zone as a method of release detection under 329 IAC 9-7-4(7)(B). The documentation must be maintained under subsections (d) and (e) within thirty (30) days after the installation of the secondary barrier is completed for a new UST system and an upgraded UST system.
- (10) Documentation supporting the suitability of the secondary barrier as a method of release detection under 329 IAC 9-7-4(7)(B). The documentation must be maintained under subsections (d) and (e) within thirty (30) days after the installation of the secondary barrier is completed for a new UST system and an upgraded UST system.
- (11) A corrosion expert's analysis of site corrosion potential if corrosion protection equipment is not used under 329 IAC 9-2-1(1)(D) or 329 IAC 9-2-1(2)(C). The documentation must be maintained under subsections (d) and (e) within thirty (30) days after the analysis is completed.
- (12) All written performance claims that pertain to any release detection system used and the manner in which the claim has been justified or tested by the equipment manufacturer or installer. All claims must be maintained for the longest of the following time periods:
- (A) Five (5) years.
 - (B) The time period the release detection system is used.
 - (C) The time period of any unresolved litigation between the commissioner and the owner or operator of the UST system.

(13) The results of any sampling, testing, or monitoring relating to release detection systems must be maintained for at least one (1) year except that the results of tank tightness testing conducted under 329 IAC 9-7-4(3) must be maintained until the next test is conducted.

(14) Documentation of all calibration, maintenance, and repair of release detection equipment permanently located on-site must be maintained for at least one (1) year after the servicing work is completed.

(15) Any schedules of required calibration and maintenance provided by the release detection equipment manufacturer must be maintained for the longest of the following time periods:

(A) Five (5) years from the date of installation.

(B) The time period the release detection system is used.

(d) The owner and operator shall maintain the records required at:

(1) the underground storage tank site and immediately available for inspection by the agency; or

(2) a readily available alternative site and be provided for inspection to the agency upon request.

(e) In the case of closure records required under 329 IAC 9-6-4, the owner and operator are also provided with the additional alternative of mailing closure records to the agency if they cannot be kept at the site or an alternative site as allowed in subsection (d)(2). (*Solid Waste Management Division; 329 IAC 9-3-1; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1069; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3701; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535; filed Aug 30, 2004, 9:35 a.m.: 28 IR 152*)

329 IAC 9-3-1.2 Secondary containment

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 1.2. The owner and operator of an UST system shall have all newly installed tanks and piping or all replaced tanks and piping secondarily contained as required under section 329 IAC 9-2-1(1), 329 IAC 9-2-1.1(b)(1), 329 IAC 9-7-3(2) for tanks, and 329 IAC 9-2-1(2)(D) and 329 IAC 9-2-1.1(b)(2) for piping. (*Solid Waste Management Division; 329 IAC 9-3-1.2; filed Aug 3, 2009, 1:48 p.m.: 20090902-IR-329080055FRA*)

329 IAC 9-3-1.3 Interstitial monitoring

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 1.3. The owner and operator of an UST system shall have all newly installed tanks and piping or all replaced tanks and piping interstitially monitored through a method that meets the requirements under 329 IAC 9-2-1.1(b)(1)(A) and 329 IAC 9-7-4(7) for tanks and 329 IAC 9-2-1.1(b)(2)(A) and 329 IAC 9-7-5 for piping. (*Solid Waste Management Division; 329 IAC 9-3-1.3; filed Aug 3, 2009, 1:48 p.m.: 20090902-IR-329080055FRA*)

329 IAC 9-3-2 Electronic reporting and submittal

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 2. Documentation required to be submitted to the agency by this article, with the exception of reports required under 329 IAC 9-4-4, may be submitted in an electronic format as prescribed by the commissioner. Any documents submitted in an electronic format must also be submitted as a paper copy unless the commissioner makes a determination that only an electronic copy is needed. (*Solid Waste Management Division; 329 IAC 9-3-2; filed Aug 30, 2004, 9:35 a.m.: 28 IR 155*)

Rule 3.1. General Operating Requirements

329 IAC 9-3.1-1 Spill and overfill control

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

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Sec. 1. (a) The owner and operator shall ensure the following:

- (1) Releases due to spilling or overfilling do not occur.
- (2) The volume available in the tank is greater than the volume of product to be transferred to the tank before the transfer is made.
- (3) The transfer operation is monitored constantly to prevent overfilling and spilling.
- (4) The transfer operation complies with the "Flammable and Combustible Liquids", of the Indiana Fire Code under rules of the fire prevention and building safety commission at 675 IAC 22.
- (b) The owner and operator shall report, investigate, and clean up any spills and overfills under 329 IAC 9-4-4.
- (c) Deliveries must be made through a drop tube that extends to within one (1) foot of the tank bottom. (*Solid Waste Management Division; 329 IAC 9-3.1-1; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3704; filed Aug 30, 2004, 9:35 a.m.: 28 IR 155*)

329 IAC 9-3.1-2 Operation and maintenance of corrosion protection

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 2. The owner and operator of a steel UST system with corrosion protection shall comply with the following requirements to ensure that releases due to corrosion are prevented for as long as the UST system is used to store regulated substances:

- (1) All corrosion protection systems must be operated and maintained to continuously provide corrosion protection to the metal components of that portion of the tank and piping that:
 - (A) routinely contain regulated substances; and
 - (B) are in contact with the ground.
- (2) All UST systems equipped with galvanic cathodic protection systems must be inspected for proper operation by a qualified cathodic protection tester under the following requirements:
 - (A) All galvanic cathodic protection systems must be tested within six (6) months of installation and at least every three (3) years thereafter.
 - (B) Nace International (formerly the National Association of Corrosion Engineers) Standard RP0285-95, "Corrosion Control of Underground Storage Tank Systems by Cathodic Protection", revised 1995, NACE International, P.O. Box 218340, Houston, Texas 77218-8340.
- (3) All UST systems with impressed current cathodic protection systems must be:
 - (A) inspected every sixty (60) days to ensure the equipment is running according to manufacturer's specifications; and
 - (B) tested within six (6) months of installation and at least every three (3) years thereafter.
- (4) Records of the operation of the cathodic protection must be maintained under 329 IAC 9-3 to demonstrate compliance with the performance standards in this section. These records must provide the results of the following:
 - (A) The most recent three (3) inspections required in subdivision (3).
 - (B) Testing from the last two (2) inspections required in subdivision (2).
- (5) The owner and operator shall demonstrate compliance with this section by providing a certification of compliance on the notification form under 329 IAC 9-2-2. The certification must demonstrate that the person that performs the work has been certified by the office of the state fire marshal.

(*Solid Waste Management Division; 329 IAC 9-3.1-2; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3704; filed Aug 30, 2004, 9:35 a.m.: 28 IR 155*)

329 IAC 9-3.1-3 Compatibility

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 3. (a) The owner and operator shall use an UST system made of or lined with materials that are compatible with the regulated substance stored in the UST system.

- (b) For tanks that store alcohol blends, one (1) or more of the following codes must be used to comply with subsection (a):
 - (1) American Petroleum Institute Recommended Practice 1626, "Storing and Handling Ethanol and Gasoline-Ethanol Blends

at Distribution Terminals and Service Stations", First Edition, April 1985, American Petroleum Institute, 1220 L Street NW, Washington, D.C. 20005-4070.

(2) American Petroleum Institute Recommended Practice 1627, "Storage and Handling of Gasoline-Methanol/Cosolvent Blends at Distribution Terminals and Service Stations", First Edition, August 1986, American Petroleum Institute, 1220 L Street NW, Washington, D.C. 20005-4070.

(Solid Waste Management Division; 329 IAC 9-3.1-3; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3704; filed Aug 30, 2004, 9:35 a.m.: 28 IR 156)

329 IAC 9-3.1-4 Repairs and maintenance allowed

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 4. (a) The owner and operator of an UST system shall ensure that repairs and maintenance prevent releases due to:

(1) structural failure; or

(2) corrosion;

as long as the UST system is used to store regulated substances.

(b) The repairs and maintenance must meet the following requirements:

(1) Repairs and maintenance to a steel UST system must be conducted in accordance with one (1) or more of the following:

(A) "Flammable and Combustible Liquids", of the Indiana Fire Code, 675 IAC 22.

(B) American Petroleum Institute Recommended Practice 2200, "Repairing Crude Oil, Liquified Petroleum Gas, and Product Pipelines", Third Edition, May 1994, American Petroleum Institute, 1220 L Street NW, Washington, D.C. 20005-4070.

(C) American Petroleum Institute Recommended Practice 1631, "Interior Lining and Periodic Inspections of Underground Storage Tanks", Fifth Edition, June 2001, American Petroleum Institute, 1220 L Street NW, Washington, D.C. 20005-4070.

(D) National Leak Prevention Association Standard 631, "Spill Prevention, Minimum 10 Year Life of Existing Steel Underground Storage Tanks by Lining Without the Addition of Cathodic Protection", revised 1992, National Leak Prevention Association, Route 2, Box 106A, Falmouth, Kentucky 41040.

(2) Maintenance to a steel tank lined under section 2 of this rule is not allowed if thirty percent (30%) or more of the original lined surface of the steel tank has had maintenance performed under subdivision (1). The tank must be closed according to 329 IAC 9-6.

(3) Repairs and maintenance to a fiberglass-reinforced plastic tank may be made by the:

(A) manufacturer's authorized representative using the manufacturer's specifications; or

(B) owner or operator in accordance with one (1) or more of the following:

(i) Underwriters Laboratories Standard 1316, "Glass-Fiber-Reinforced Plastic Underground Storage Tanks for Petroleum Products, Alcohol, and Alcohol-Gasoline Mixtures", revised 1996, Underwriters Laboratories Inc., 333 Pfingsten Road, Northbrook, Illinois 60062.

(ii) Codes listed in Class 6 of American Petroleum Institute Recommended Practice 1631, "Interior Lining and Periodic Inspections of Underground Storage Tanks", Fifth Edition, June 2001, American Petroleum Institute, 1220 L Street NW, Washington, D. C. 20005-4070.

(iii) National Leak Prevention Association Standard 631, "Spill Prevention, Minimum 10 Year Life of Existing Steel Underground Storage Tanks by Lining Without the Addition of Cathodic Protection", revised 1992, National Leak Prevention Association, Route 2, Box 106A, Falmouth, Kentucky 41040.

(4) The requirements for repair and maintenance to pipes and fittings are as follows:

(A) Metal pipe sections and fittings that have released product as a result of corrosion or other damage must be replaced.

(B) Fiberglass pipes and fittings may be repaired or have maintenance performed in accordance with the manufacturer's specifications.

(5) The repaired tank and piping must be tightness tested under 329 IAC 9-7-4(3) and 329 IAC 9-7-5(2) within thirty (30)

days following the date of the completion of the repair except as provided under one (1) of the following:

- (A) The repaired tank is internally inspected in accordance with one (1) or more of the standards listed in subdivision (1) or (3).
 - (B) The repaired portion of the UST system is monitored monthly for releases under a method specified in 329 IAC 9-7-4(4) through 329 IAC 9-7-4(8).
 - (C) Another test method is used that is determined by the commissioner to be no less protective of human health and the environment than those listed in clauses (A) and (B).
- (6) Following the repair of any cathodically protected UST system, the cathodic protection system must be tested under:
- (A) section 2(2) of this rule within six (6) months following the repair for a galvanic cathodic protection system; and
 - (B) section 2(3) of this rule within sixty (60) days following the repair for an impressed current cathodic protection system;
- to ensure that it is operating properly.
- (7) The UST system owner and operator shall maintain records of each repair for the remaining operating life of the UST system that demonstrate compliance with this section. Maintenance must be documented but is not required to be reported to the agency.
- (8) The owner and operator shall demonstrate compliance with this section by providing a certification of compliance on the notification form under 329 IAC 9-2-2. The certification must demonstrate that the person that performs the work has been certified by the office of the state fire marshal.

(Solid Waste Management Division; 329 IAC 9-3.1-4; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3705; filed Aug 30, 2004, 9:35 a.m.: 28 IR 156)

Rule 4. Releases

329 IAC 9-4-1 Reporting of suspected releases

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 1. The owner and operator of a UST system shall report to the agency within twenty-four (24) hours and follow the procedures in 329 IAC 9-5-4.1 for any of the following conditions:

- (1) The discovery by the owner and operator or another person of released regulated substances at the underground storage tank site or in the surrounding area. Released regulated substances may include the presence of free product or vapors in any of the following:
- (A) Soils.
 - (B) Basements.
 - (C) Storm sewer lines.
 - (D) Sanitary sewer lines.
 - (E) Utility lines.
 - (F) Nearby surface water.
 - (G) Ground water.
- (2) Unusual operating conditions observed by the owner and operator that may include the erratic behavior of product dispensing equipment, the sudden loss of product from the UST system, or an unexplained presence of water in the tank unless the system equipment is:
- (A) found to be defective but not leaking; and
 - (B) immediately repaired or replaced.
- (3) Monitoring results from the release detection method required under 329 IAC 9-7-2 and 329 IAC 9-7-3 that indicate a release may have occurred unless:
- (A) the monitoring device is:
 - (i) found to be defective; and
 - (ii) immediately repaired, recalibrated, or replaced;

and additional monitoring does not confirm the initial result; or

(B) in the case of inventory control, a second month of data does not confirm the initial result.

(Solid Waste Management Division; 329 IAC 9-4-1; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1069; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3706; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535)

329 IAC 9-4-2 Investigations due to off-site impacts

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 2. When required by the commissioner, the owner and operator of a UST system shall follow the procedures in section 3 of this rule to determine if the UST system is the source of off-site impacts. These impacts include the presence of regulated substances. The presence of regulated substances may include free or dissolved product or vapors in:

- (1) soils;
- (2) basements;
- (3) storm sewer lines;
- (4) sanitary sewer lines;
- (5) utility lines;
- (6) nearby surface waters;
- (7) nearby drinking waters;
- (8) irrigation ground waters; or
- (9) thermal extraction ground waters;

that have been observed by the agency or brought to the attention of the agency by another person. *(Solid Waste Management Division; 329 IAC 9-4-2; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1070; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3706; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535)*

329 IAC 9-4-3 Release investigations and confirmation steps

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 3. Unless corrective action is initiated in accordance with 329 IAC 9-5, the owner and operator shall immediately investigate and confirm all suspected releases of regulated substances requiring reporting under section 1 of this rule within seven (7) days using the following steps or another procedure approved by the commissioner:

(1) The owner and operator shall conduct tests according to the requirements for tightness testing in 329 IAC 9-7-4(3) and 329 IAC 9-7-5(2) to determine whether a leak exists in that portion of the tank that routinely contains product or the attached delivery piping, or both. The owner and operator shall complete one (1) of the following:

(A) The owner and operator shall repair, replace, or upgrade the UST system and begin corrective action in accordance with 329 IAC 9-5 if the test results for the system, tank, or delivery piping indicate that a leak exists.

(B) Further investigation is not required if the test results for the system, tank, and delivery piping do not indicate that a leak exists and if contaminants are not present.

(C) The owner and operator shall conduct a site check as described in subdivision (2) if the test results for the system, tank, and delivery piping do not indicate that a leak exists, but contaminants are present.

(2) The owner and operator shall measure for the presence of a release where the contaminant is most likely to be present at the underground storage tank site. In selecting sample types, sample locations, and measurement methods, the owner and operator shall consider the nature of the stored substance, the type of initial alarm or cause for suspicion, the type of backfill, the depth to ground water, and other factors appropriate for identifying the presence and source of the release. The owner and operator shall complete one (1) of the following:

(A) If the test results for the excavation zone or the underground storage tank site indicate that a release has occurred, the owner and operator shall begin corrective action in accordance with 329 IAC 9-5.

(B) If the test results for the excavation zone or the underground storage tank site do not indicate that a release has

occurred, further investigation is not required.

(Solid Waste Management Division; 329 IAC 9-4-3; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1070; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3706; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535; filed Aug 30, 2004, 9:35 a.m.: 28 IR 157)

329 IAC 9-4-4 Reporting and cleanup of spills and overfills

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 4. (a) The owner and operator of an UST system shall contain and immediately clean up a spill or overfill, report the incident to the emergency response twenty-four (24) hour spill hotline at (888) 233-7745 in Indiana or (317) 233-7745 as soon as possible but within twenty-four (24) hours, and begin corrective action in accordance with 329 IAC 9-5 in the following cases:

(1) Spill or overfill of petroleum that results in a release to the environment that:

(A) equals or exceeds twenty-five (25) gallons; or

(B) causes a sheen on nearby surface water.

(2) Spill or overfill of a hazardous substance that results in a release to the environment that equals or exceeds its reportable quantity under 40 CFR 302.4, revised 2000. The Code of Federal Regulations is available from the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402.

(b) The owner and operator of an UST system shall contain and immediately remove any contaminated media when one (1) of the following occur:

(1) Spill or overfill of petroleum that is less than twenty-five (25) gallons.

(2) Spill or overfill of a hazardous substance that is less than the reportable quantity under 40 CFR 302.4, revised 2000. The Code of Federal Regulations is available from the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402.

If the removal of any contaminated media cannot be accomplished within twenty-four (24) hours, the owner and operator shall immediately notify the agency. *(Solid Waste Management Division; 329 IAC 9-4-4; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1070; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3707; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535; filed Aug 30, 2004, 9:35 a.m.: 28 IR 158)*

Rule 4.5. Fuel Delivery Prohibition

329 IAC 9-4.5-1 Affixing red tags

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2; 42 U.S.C. 6991

Affected: IC 13-13-1-1; IC 13-23-12-1

Sec. 1. (a) Upon the agency's discovery of a chronic failure to comply and prior to affixing a red tag, the agency must notify the owner, operator, or employee on site in writing of the agency's discovery of a chronic failure to comply.

(b) After the owner, operator, or employee on site receives the written notification required in subsection (a), the red tag will be attached to the fill pipe of the noncompliant underground storage tank system so that the tag is visible to any person attempting to deliver a regulated substance to the underground storage tank.

(c) Upon the discovery by the agency of an owner or operator that has a failure to comply, the agency may issue a violation letter to the owner and operator identifying the specific rule requirements that were not complied with in this article.

(d) If the owner or operator fails to correct the specific compliance failure within the time stipulated in the violation letter, the agency may affix a red tag to the fill pipe of the noncompliant underground storage tank system so that the tag is visible to any person attempting to deliver a regulated substance to the underground storage tank.

(e) The owner or operator may continue to dispense from the noncompliant underground storage tank until the underground storage tank is empty.

(f) The owner or operator of a facility shall:

(1) not deposit or allow the deposit of a regulated substance into an underground storage tank that has a red tag affixed to the tank's fill pipe; and

(2) immediately notify their fuel delivery transporter of the red tag status.

(g) No person shall do the following:

(1) Deposit a regulated substance into an underground storage tank that has a red tag affixed to the tank's fill pipe.

(2) Remove, deface, alter, or otherwise tamper with a red tag so that the information obtained on the tag is not legible.

(h) A red tagged underground storage tank system may not be out of compliance for more than six (6) consecutive months. After this time, the underground storage tank system must be closed under 329 IAC 9-6.

(i) The underground storage tank annual registration fee, as required by IC 13-23-12-1, must be paid on any tank that has a red tag. (*Solid Waste Management Division; 329 IAC 9-4.5-1; filed May 7, 2010, 10:02 a.m.: 20100602-IR-329070468FRA*)

329 IAC 9-4.5-2 Removing red tags

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2; 42 U.S.C. 6991

Affected: IC 13-13-1-1; IC 13-23

Sec. 2. (a) Upon notification by the owner or operator documenting to the satisfaction of the agency that the compliance failure has been corrected, the agency may provide written authorization to the owner or operator to remove the red tag. The agency shall do the following:

(1) Inspect the underground storage tank system within five (5) business days of the notification to validate the documentation submitted by the owner or operator.

(2) Upon validation of the submitted documentation, the agency shall immediately remove the tag if the red tag was not already removed by the owner or operator under this subsection.

(b) A red tag that has been removed by the owner or operator shall be returned to the agency within five (5) business days. (*Solid Waste Management Division; 329 IAC 9-4.5-2; filed May 7, 2010, 10:02 a.m.: 20100602-IR-329070468FRA*)

329 IAC 9-4.5-3 Notice of correction of a failure to comply

Authority: IC 4-21-5-3-4; IC 4-21.5-3-7; IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2; 42 U.S.C. 6991

Affected: IC 13-13-1-1; IC 13-23

Sec. 3. Upon confirmation that a compliance failure has been corrected, the agency shall notify the owner or operator in writing by certified mail of the confirmation. (*Solid Waste Management Division; 329 IAC 9-4.5-3; filed May 7, 2010, 10:02 a.m.: 20100602-IR-329070468FRA*)

Rule 5. Initial Response, Site Investigation, and Corrective Action

329 IAC 9-5-1 Applicability for release response and corrective action

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-12-3-2; IC 13-23

Sec. 1. An owner and operator of a petroleum or hazardous substance UST system shall, in response to a confirmed release from the UST system, comply with the requirements of this rule unless the UST system is excluded under 329 IAC 9-1-1(b) or the UST system is subject to corrective action requirements under Section 3004(u) (42 U.S.C. 6924(u)) of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act, as amended, 42 U.S.C. 6901, et seq., in effect on September 30, 1996. (*Solid Waste Management Division; 329 IAC 9-5-1; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1071; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3707; errata filed Sep 10, 1999, 9:08 a.m.: 23 IR 26; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535; filed Aug 30, 2004, 9:35 a.m.: 28 IR 158*)

329 IAC 9-5-2 Initial response

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 2. Upon confirmation of a release in accordance with 329 IAC 9-4-3 or after a release from the UST system is identified in any other manner, the owner and operator shall perform the following initial response actions within twenty-four (24) hours of a release:

- (1) Report the release to the agency:
 - (A) by telephone at (317) 232-8900 or after hours or holidays at (317) 233-7745;
 - (B) by fax at (317) 234-0428; or
 - (C) at LeakingUST@dem.state.in.us for electronic mail.
- (2) Take immediate action to prevent any further release of the regulated substance into the environment.
- (3) Identify and mitigate fire, explosion, and vapor hazards.
- (4) Mitigate to the extent practicable adverse effects to human health and the environment.

(Solid Waste Management Division; 329 IAC 9-5-2; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1071; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3709; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535; filed Aug 30, 2004, 9:35 a.m.: 28 IR 160)

329 IAC 9-5-3 Initial abatement measures and site check (Repealed)

Sec. 3. *(Repealed by Solid Waste Management Division; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3761)*

329 IAC 9-5-3.1 Free product removal (Repealed)

Sec. 3.1. *(Repealed by Solid Waste Management Division; filed Aug 30, 2004, 9:35 a.m.: 28 IR 177)*

329 IAC 9-5-3.2 Initial abatement measures and site check

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 3.2. (a) The owner and operator shall perform the following abatement measures:

- (1) Remove as much of the regulated substance from the UST system as necessary to prevent further release to the environment.
- (2) Visually inspect any aboveground releases or exposed belowground releases and prevent further migration of the released substance into surrounding soils and ground water.
- (3) Continue to monitor and mitigate any additional fire and safety hazards posed by vapors or free product that have migrated from the underground storage tank excavation zone and entered into subsurface structures, which may include:
 - (A) storm sewers;
 - (B) sanitary sewers;
 - (C) utility lines;
 - (D) inhabitable buildings with a basement or crawlspace; or
 - (E) underground conduits.
- (4) Remedy hazards posed by contaminated soils that are excavated or exposed as a result of release confirmation, site investigation, abatement, or corrective action activities. If these remedies include treatment or disposal of soils, the owner and operator shall comply with applicable state and local requirements.
- (5) Measure for the presence of a release where the contaminant is most likely to be present at the underground storage tank site unless the presence and source of the release have been confirmed in accordance with the site check required by 329 IAC 9-4-3(2) or the closure site assessment of 329 IAC 9-6-2.5. In selecting sample types, sample locations, and measurement methods, the owner and operator shall consider the nature of the stored substance, the type of backfill, depth to ground water, and other factors as appropriate for identifying the presence and source of the release.
- (6) Investigate to determine the possible presence of free product, and begin free product removal as soon as practicable and in accordance with section 4.2 of this rule.
 - (b) If:
 - (1) drinking water is affected;

- (2) free product is present; or
- (3) vapors are present in:
 - (A) storm sewers;
 - (B) sanitary sewers;
 - (C) utility lines;
 - (D) inhabitable buildings with a basement or crawlspace; or
 - (E) underground conduits;

within twenty (20) days after release confirmation, the owner and operator shall submit a report to the agency summarizing the initial abatement measures taken under subsection (a) and any resulting information or data. (*Solid Waste Management Division; 329 IAC 9-5-3.2; filed Aug 30, 2004, 9:35 a.m.: 28 IR 160*)

329 IAC 9-5-4 Initial site characterization (Repealed)

Sec. 4. (*Repealed by Solid Waste Management Division; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3761*)

329 IAC 9-5-4.1 Initial abatement measures and site check (Repealed)

Sec. 4.1. (*Repealed by Solid Waste Management Division; filed Aug 30, 2004, 9:35 a.m.: 28 IR 177*)

329 IAC 9-5-4.2 Free product removal

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 4.2. At sites where investigations indicate the presence of free product, the owner and operator shall remove free product to the maximum extent practicable as determined by the commissioner based on free product removal technology and site conditions while continuing, as necessary, any actions initiated under sections 2, 3.2, and 5.1 of this rule, or preparation for actions required under sections 6 and 7 of this rule. In meeting the requirements of this section, the owner and operator shall do the following:

- (1) Conduct free product removal in a manner that:
 - (A) minimizes the spread of the contaminant into previously uncontaminated zones by using recovery and disposal techniques appropriate to the hydrogeologic conditions at the site; and
 - (B) properly treats, discharges, or disposes of recovery products and byproducts in compliance with applicable local, state, and federal regulations.
- (2) Use abatement of free product migration as a minimum objective for the design of the free product removal system.
- (3) Handle any flammable products in a manner so as to prevent fires or explosions in accordance with the site health and safety plan as required by section 7(e) of this rule.
- (4) Unless directed to do otherwise by the commissioner, prepare and submit to the agency, within forty-five (45) days after confirming a release, a free product removal report that provides at least the following information:
 - (A) The name of the person responsible for directing the free product removal measures.
 - (B) The estimated quantity, type, and thickness of free product observed or measured in wells, boreholes, and excavations.
 - (C) The type of free product recovery system used.
 - (D) Whether any discharge of free product will take place on-site or off-site during the recovery operation and where this discharge will be located.
 - (E) The type of treatment applied to, and the effluent quality expected from, any discharge.
 - (F) The steps that have been, or are being taken, to obtain necessary permits for any discharge.
 - (G) The disposition of the recovered free product.

(*Solid Waste Management Division; 329 IAC 9-5-4.2; filed Aug 30, 2004, 9:35 a.m.: 28 IR 160*)

329 IAC 9-5-5 Free product removal (Repealed)

Sec. 5. (Repealed by Solid Waste Management Division; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3761)

329 IAC 9-5-5.1 Initial site characterization

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-12-3-2; IC 13-23; IC 25-17.6; IC 25-31-1; IC 25-31.5-4

Sec. 5.1. (a) In conformance with IC 13-12-3-2, the owner and operator shall assemble information about the site and the nature of the release, including information gained while confirming the release or completing the initial response and abatement measures in sections 2 and 3.2 of this rule. This information must include a title page that identifies the consultant performing the work, the date the report was prepared, and the following:

- (1) Data on the nature, site-specific location, and estimated quantity of release.
- (2) Data from available sources or site investigations, or both, concerning the following factors:
 - (A) Surrounding populations.
 - (B) Surface and ground water quality.
 - (C) Use and approximate locations of all wells potentially affected by the release but at a minimum include those wells specified in subsection (b)(2)(E)(v)(CC) and (b)(2)(E)(v)(DD).
 - (D) Subsurface soil conditions.
 - (E) Locations of on-site and adjacent subsurface features.
 - (F) Climatological conditions.
 - (G) Land use.
- (3) Results of the site check required under section 3.2(a)(5) of this rule.
- (4) Results of the free product investigations required under section 3.2(a)(6) of this rule, to be used by the owner and operator to determine whether free product must be recovered under section 4.2 of this rule.
- (5) Known or expected extent of the contaminant or contaminants.
- (6) Information requested by the commissioner.
- (b) Within sixty (60) days of release confirmation, the owner and operator shall submit the information collected under subsection (a) to the agency as follows:
 - (1) In a manner that demonstrates the applicability and technical adequacy of the information.
 - (2) In a format as required by the agency that includes the following information:
 - (A) Background, including the following:
 - (i) The owner's and operator's name and address.
 - (ii) Past owners' and operators' names and addresses.
 - (iii) The facility name, address, and telephone number.
 - (iv) All prior and present operations of the facility.
 - (v) Prior construction activities.
 - (vi) List of prior spills at the facility.
 - (vii) Site proximity to sensitive areas, such as:
 - (AA) residences;
 - (BB) schools;
 - (CC) wells;
 - (DD) well fields; or
 - (EE) wellhead protection areas;
 - delineated under rules of the water pollution control board at 327 IAC 8-4.1.
 - (viii) Subsurface soil descriptions.
 - (ix) Information known about all ground water wells within a one (1) mile radius of the facility.
 - (x) Description of all site work completed and the date the site work was completed.
 - (xi) Number and volume of underground storage tank or tanks.

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- (xii) Underground storage tank construction material and type of leak detection.
- (xiii) Past and present contents of each underground storage tank.
- (xiv) Records of most recent tightness test results, inventory records, and underground storage tank gaging records for the prior calendar year.
- (xv) Underground storage tank age and date of installation.
- (xvi) Underground storage tank system closure report submittal date, if applicable.
- (B) Release incident description, including the following:
 - (i) Date reported to the agency.
 - (ii) Release incident number given by the agency at the initial report.
 - (iii) Assigned agency site priority ranking obtained at the initial report.
 - (iv) List of material or materials released.
 - (v) List of volume lost.
 - (vi) List of areas affected, such as the:
 - (AA) soil;
 - (BB) ground water;
 - (CC) surface water features; or
 - (DD) subsurface conduits.
 - (vii) Health and environmental risks associated with the spill incident.
- (C) Initial response and abatement information, including the following:
 - (i) A detailed description of immediate actions taken to prevent any further release.
 - (ii) Measures taken to prevent further migration of the spill.
 - (iii) Actions taken to identify and mitigate fire and explosion hazards posed by vapors or free product.
 - (iv) Actions taken to investigate free product release.
- (D) Free product recovery information, including the following:
 - (i) The name of the person or persons responsible for product removal.
 - (ii) Estimated quantity, type, and thickness of product observed or discovered.
 - (iii) A description of the recovery system.
 - (iv) Copies of all permits from local, state, and federal agencies necessary for:
 - (AA) handling;
 - (BB) treating;
 - (CC) discharging; and
 - (DD) disposing of;the contaminants.
 - (v) Final disposition of the recovered free product and associated documentation.
- (E) Investigation information, including the following:
 - (i) Types of bedrock.
 - (ii) Soil series description.
 - (iii) List of regional soil and geologic references used.
 - (iv) Regional hydrogeological references used.
 - (v) Appropriately scaled regional maps with the following:
 - (AA) Illustrated legends, scale, and compass direction.
 - (BB) Topographic base with ten (10) foot contour intervals.
 - (CC) Location, depth, and corresponding department of natural resources' well records for wells located within a two (2) mile radius of the site that have a capacity of over seventy (70) gallons per minute or that are municipal water supply wells.
 - (DD) Location, depth, and corresponding department of natural resources' well records for wells with a capacity of less than seventy (70) gallons per minute within a one (1) mile radius of the site.
 - (EE) Identification of facilities and land for agricultural, industrial, and commercial use within one (1) mile radius of the site.

- (FF) Locations of surface water features within a one (1) mile radius of the site.
- (vi) Site-specific geologic information as follows:
 - (AA) A minimum of three (3) on-site, continuously sampled soil borings.
 - (BB) Soil boring locations, accurately field surveyed with a horizontal closure of less than one (1) foot error.
 - (CC) Site soil stratigraphy identification, including cross sections.
 - (DD) Soil boring logs that include the method of drilling, total depth of boring, type and thickness of formations or materials encountered, including color, hardness, and a geological description, soil vapor readings, name and address of drilling company, name and license number of drilling operator, and signature of licensed driller or environmental professional who logged the boring.
 - (EE) Soil boring logs with the same vertical scale and including surface elevations.
- (vii) Hydrogeologic information, including the following:
 - (AA) Depth to ground water measured in a piezometer or monitoring well.
 - (BB) Ground water flow directions and gradients.
 - (CC) A minimum of three (3) ground water samples collected from locations most likely to be contaminated and a description of the method of sample collection.
 - (DD) A minimum of three (3) monitoring wells or piezometers must be screened across water table fluctuation and not placed in a straight line. Monitoring wells must be installed, when time series ground water quality monitoring is required.
 - (EE) Monitoring well and piezometer location surveyed to a temporary benchmark with a vertical accuracy of one-hundredth (.01) foot and with a horizontal closure of less than one (1) foot.
 - (FF) Monitoring well or piezometer construction records submitted with the same scale that includes ground surface and the top of the well casing elevations, casing size and materials, well screen length, slot size, depth to the top and bottom of screen, method of drilling or well installation, borehole size, name and address of drilling company, name and license number of the equipment operator, type, depth, and thickness of grouting materials, method of installation, and signature of licensed driller.
 - (GG) Monitoring well or piezometer stratigraphic logs that meet the requirements of rules of the natural resources commission at 312 IAC 13, and include method of drilling, total depth of boring, type and thickness of formations or materials encountered, including color, hardness, and a geological description, soil vapor readings, borehole diameter, well diameter, name and address of drilling company, name and license number of drilling operator, and signature of licensed driller or environmental professional who logged the well or piezometer boring.
- (viii) Contamination plume identification and maps, appropriately scaled, that include the following:
 - (AA) Illustrated legends, scale, and compass directions.
 - (BB) Topographic base with appropriate contour intervals to accurately describe the site.
 - (CC) Identification of aboveground features, including buildings, roadways, manways, pump islands, and property lines.
 - (DD) Identification of subsurface features, including tanks, piping, and utility conduits, storm sewers, sanitary sewers, utility lines, and french drains.
 - (EE) Soil borings and monitoring well locations surveyed to a temporary benchmark with a horizontal closure accuracy of one (1) foot, and monitoring well locations surveyed with a vertical accuracy of one-hundredth (.01) foot.
 - (FF) Sampling locations, depth of sample taken, and the contaminant concentration results.
 - (GG) Horizontal and vertical contaminant plume identification.
 - (HH) Geologic cross sections showing the water table and illustrating the vertical extent of the contaminant plume.
- (II) Ground water flow directions.
- (F) Sampling information, including the following:
 - (i) Field investigation procedures.

- (ii) Field screen samples.
- (iii) Laboratory procedures that include:
 - (AA) checking sample validity;
 - (BB) sample acquisition;
 - (CC) container;
 - (DD) preservation;
 - (EE) shipping requirements;
 - (FF) storage time;
 - (GG) chain of custody; and
 - (HH) decontamination of equipment between samples.
- (iv) Provisions for retention of laboratory quality assurance and quality control information, so that the information may be made available to representatives of the agency upon request.
- (v) Documentation, in a format prescribed by the commissioner, of the sampling and analysis conducted.
- (vi) A report, in a format prescribed by the commissioner, that includes a signed laboratory certificate of analysis that lists:
 - (AA) analysis method;
 - (BB) method preparation;
 - (CC) date of sample receipt;
 - (DD) date of analysis;
 - (EE) a statement that the method quality assurance and quality control procedures were followed;
 - (FF) the chain of custody documentation, including laboratory receipts, decontamination procedures, and sampling procedures and techniques.
- (vii) Analytical methods and corresponding detection limits.
- (G) Results and conclusions that include the following:
 - (i) A discussion of the results of the site investigation.
 - (ii) Field and laboratory sample results in a tabular format.
- (H) Recommendations that include a discussion of the need for further site investigations under section 6 of this rule to determine the nature and extent of the contaminants.
- (3) In a report that is signed by a:
 - (A) registered professional engineer under IC 25-31-1;
 - (B) licensed professional geologist under IC 25-17.6;
 - (C) certified hazardous materials manager (CHMM) as certified by the Institute of Hazardous Material Management; or
 - (D) professional soil scientist registered under IC 25-31.5-4.
- (c) The commissioner may approve an alternative procedure for initial site characterization only if the procedure provides substantially equal protection for human health and the environment as the initial site characterization in subsections (a) and (b) and is in the format as described in subsection (b)(2) and (b)(3). (*Solid Waste Management Division; 329 IAC 9-5-5.1; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3710; errata filed Sep 10, 1999, 9:08 a.m.: 23 IR 26; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535; filed Aug 30, 2004, 9:35 a.m.: 28 IR 161*)

329 IAC 9-5-6 Further site investigations for soil and ground water cleanup

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2
Affected: IC 13-12-3-2; IC 13-23

Sec. 6. (a) In order to determine the full extent and location of soils contaminated by the release and the presence and concentrations of dissolved product as a contaminant of the ground water, the owner and operator shall conduct a further site investigation of the release, the release site, and the surrounding area possibly affected by the release if any of the following conditions exist:

- (1) Information collected and submitted under section 5.1 of this rule is incomplete or fails to define the nature and extent

of contamination in the soil and ground water.

(2) There is evidence that ground water wells have been affected by the contaminant. This evidence may include any information collected during release confirmation or previous corrective action measures.

(3) Free product is found to need recovery in compliance with section 4.2 of this rule.

(4) There is evidence that contaminated soils may be in contact with ground water. This evidence may include any information collected while conducting the initial response measures or investigations required under sections 1, 2, 3.1, 4.1, and 5.1 of this rule.

(5) The commissioner requests a further site investigation based on the potential effects of contaminated soil or ground water on nearby surface water and ground water resources.

(b) During the further site investigation the owner or operator must do the following if evidence exists that a contaminant exceeds the cleanup objectives under IC 13-12-3-2:

(1) Install a minimum of three (3) ground water monitoring wells, if at least three (3) wells were not installed during the initial site investigation under section 5.1 of this rule. Additional monitoring wells may be required to fully define the extent of contamination.

(2) Take a ground water sample from each of the monitoring wells and report the analytical results to the agency.

(3) Provide a description of the method for collecting the ground water samples.

(4) Monitoring wells must be screened across water table fluctuation and not placed in a straight line.

(5) Monitoring wells must be installed as per the requirement of the rule of the natural resources commission at 312 IAC 13-8-3.

(c) The owner and operator shall submit the information collected under subsection (b) as soon as practicable or in accordance with a schedule established by the commissioner in the format described in section 5.1(b)(2) and 5.1(b)(3) or 5.1(c) of this rule as well as a title page that identifies the consultant performing the work, the date the report was prepared, and the following information:

(1) Hydraulic conductivity.

(2) Transmissivity.

(3) Storativity.

(4) Confined or unconfined condition.

(5) Porosity of the aquifer or aquifers involved.

(6) The average linear velocity of the ground water in the aquifer or aquifers involved.

(d) Provide a complete discussion of effective remediation alternatives, including the following for each alternative:

(1) Overall effectiveness of technology.

(2) Ability to achieve cleanup criteria.

(3) Expected treatment duration.

(4) Treatment reliability.

(5) Permits that will be required.

(e) The approval of a further site investigation or initial site characterization under section 5.1 of this rule is not a determination that the actual costs incurred performing these site characterization activities are reimbursable costs under the rules of the underground storage tank financial assurance board at 328 IAC 1. (*Solid Waste Management Division; 329 IAC 9-5-6; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1072; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3712; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535; filed Aug 30, 2004, 9:35 a.m.: 28 IR 164*)

329 IAC 9-5-7 Corrective action plan

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-12-3-2; IC 13-23-8-4; IC 25-17.6; IC 25-31-1; IC 25-31.5-4

Sec. 7. (a) At any point after reviewing the information submitted in compliance with sections 1, 2, 3.2, and 5.1 of this rule, the commissioner may require the owner and operator to:

(1) submit additional information; or

(2) develop and submit a corrective action plan for responding to contaminated soils and ground water.

If a plan is required, the owner and operator shall submit the plan according to a schedule established by the commissioner and the format designated under subsection (f). Alternatively, the owner and operator may, after fulfilling the requirements of sections 2, 3.2, and 5.1 of this rule, choose to submit a corrective action plan for responding to contaminated soil and ground water. In either case, the owner and operator are responsible for submitting a plan that provides for adequate protection of human health and the environment, as determined by the commissioner, and shall modify their plan as necessary to meet this standard.

(b) The commissioner will approve the corrective action plan only after ensuring that implementation of the plan will adequately protect human health, safety, and the environment. In making this determination, the commissioner shall consider the following factors, as appropriate:

- (1) The physical and chemical characteristics of the regulated substance, including its toxicity, persistence, and potential for migration.
- (2) The hydrogeologic characteristics of the facility and the surrounding area.
- (3) The proximity, quality, and current and future uses of nearby surface water and ground water.
- (4) The potential effects of a residual contaminant on nearby surface water and ground water.
- (5) The proximity of potential contaminant receptors, including:
 - (A) adjacent residences;
 - (B) wells;
 - (C) well fields; or
 - (D) wellhead protection areas delineated under rules of the water pollution control board at 327 IAC 8-4.1.
- (6) An exposure assessment.
- (7) Any information assembled in compliance with this rule.
- (8) The suitability of the chosen remediation method for site conditions.

(c) Upon approval of the corrective action plan or as directed by the commissioner, the owner and operator shall implement the plan, including modifications to the plan made by the commissioner. The owner and operator shall monitor, evaluate, and report the results of implementing the plan in accordance with a schedule and in a format established by the commissioner. During implementation of the corrective action plan the commissioner may find that the approved corrective action plan will not achieve or is not achieving the cleanup objectives. Upon making this finding:

- (1) the commissioner will notify the owner and operator that approval of the corrective action plan is suspended pending modification;
- (2) the basis of the finding shall also be provided to the owner or operator;
- (3) the owner or operator shall submit a modified plan to the commissioner for approval under subsection (b) before corrective action plan approval is reinstated;
- (4) a reinstated corrective action plan approval is subject to all the provisions of this subsection; and
- (5) the approval of a corrective action plan under this subsection is not a determination that the actual costs incurred performing the corrective action plan are reimbursable costs under the rules of the underground storage tank financial assurance board at 328 IAC 1.

(d) The owner and operator may, in the interest of minimizing the effect of a contaminant and promoting more effective cleanup, begin cleanup of soil and ground water before the corrective action plan is approved provided that the owner and operator:

- (1) notify the agency of their intention to begin cleanup;
- (2) comply with any conditions imposed by the commissioner, including halting cleanup or mitigating adverse consequences from cleanup activities; and
- (3) incorporate these self-initiated cleanup measures in the corrective action plan that is submitted to the commissioner for approval.

(e) During corrective action, the owner and operator and their designees shall adhere to a written health and safety plan that meets all applicable requirements of the occupational safety standards commission and the rules of the fire prevention and building safety commission at 675 IAC 22.

(f) The owner and operator shall conduct corrective action that meets the following requirements:

- (1) The corrective action plan must be presented in a format prescribed by the commissioner and contain the following information:
 - (A) A title page that identifies the consultant performing the work and the date the report was prepared.

- (B) An executive summary, including the following:
 - (i) A briefing about the site in narrative form, highlighting events leading to the need for corrective action.
 - (ii) Other information regarding the need for corrective action.
- (C) A narrative concerning contaminant and site conditions, including the following:
 - (i) Contaminant identification including chemical and physical properties.
 - (ii) Determination of chemical reference doses (RfDs), cancer slope factors (Sfs or CPFs), reference ingestion factors, and maximum contaminant levels.
 - (iii) Potential effects of residual contaminants.
 - (iv) Site-specific soil and hydrogeologic characteristics.
 - (v) Proximity of local surface waters and ground water and associated water quality data.
 - (vi) Current and potential future uses of local water sources.
 - (vii) A summary of site-specific water quality data generated during previously completed site investigations.
 - (viii) Other information necessary to describe site conditions.
- (D) Health and safety plan for corrective action activities, including the following:
 - (i) Known hazards and risk evaluation associated with site activities.
 - (ii) A list of personnel, alternates to personnel, and areas of responsibilities of personnel.
 - (iii) Levels of personal protection for personnel.
 - (iv) Decontamination equipment and procedures.
 - (v) Site access control measures.
 - (vi) Site emergency procedures, medical care availability, and a route by roadway to at least one (1) health care facility.
 - (vii) A list of emergency phone numbers that includes:
 - (AA) the fire department;
 - (BB) the police department;
 - (CC) a local ambulance; and
 - (DD) the local hospital or medical facility.
 - (viii) A list of personnel training, qualifications, and certifications.
 - (ix) A description of how the plan will meet health and safety requirements of the Indiana occupational health and safety standards and the rules of the fire prevention and building safety commission at 675 IAC 22.
- (E) An appropriately scaled regional map that can be reproduced from previously submitted and approved site investigation reports but that must include the following:
 - (i) Illustrated legends, scales, and compass directions.
 - (ii) A legible, topographic base with ten (10) foot contour intervals.
 - (iii) The location and depth of any wells that have a capacity:
 - (AA) greater than seventy (70) gallons per minute within a two (2) mile radius of the site; or
 - (BB) less than seventy (70) gallons per minute within a one (1) mile radius of the site.
 - (iv) Identification of facilities and land for:
 - (AA) agricultural;
 - (BB) residential;
 - (CC) commercial; and
 - (DD) industrial;use within a one (1) mile radius of the site.
 - (v) Locations of surface water features within a one (1) mile radius of the site.
 - (vi) Site location.
- (F) Appropriately scaled site maps that can be reproduced from previously submitted and approved site investigation reports that must include the following:
 - (i) Illustrated legends, scales, and compass directions.
 - (ii) Topographic base with appropriate contour intervals to accurately describe the site.
 - (iii) Identified aboveground features, including:

- (AA) buildings;
- (BB) roadways;
- (CC) manways;
- (DD) pump islands; and
- (EE) property lines.
- (iv) Identified subsurface features, including tanks, piping, and utility conduits.
- (v) Soil boring and monitoring well locations surveyed with a horizontal closure of less than one (1) foot error.
- (vi) Sampling locations, depth of sample taken, and the contaminant concentration results.
- (vii) Soil and ground water contaminant plume delineation.
- (viii) Ground water elevation contours and ground water flow direction.
- (ix) The location of remediation equipment shown to scale.
- (G) Geologic and hydrogeologic maps that describe subsurface features, identify the contaminant plume, and include the following:
 - (i) Cross sections.
 - (ii) Fence diagrams.
 - (iii) Geophysical profile or geophysical maps, or both, if available.
- (H) A narrative on selected remediation technology that includes the following:
 - (i) Feasibility studies showing the effectiveness of the selected remediated technology.
 - (ii) A detailed description of the selected technology, design explanations, and illustrations.
 - (iii) Projected contaminant removal or treatment rates, or both.
 - (iv) Technical specifications of equipment and the process.
 - (v) Discussion of disposal or fate of treated air, soil, and ground water, and permit or discharge requirements.
- (I) Sampling and analysis plan to evaluate the performance of the remediation technology that includes the following:
 - (i) A minimum of quarterly samples taken and reported.
 - (ii) The following as applicable:
 - (AA) Field investigation procedures.
 - (BB) Documentation, in a format prescribed by the commissioner, of the sampling, quality assurance measures, and analysis.
 - (CC) Field screen samples.
 - (DD) Sampling methods and laboratory procedures conducted in a manner that will generate scientifically valid data.
 - (EE) Provisions for retention of laboratory quality assurance and quality control information.
 - (FF) Provisions for submission of reports that must include a signed laboratory certificate of analysis that lists analysis method, method preparation, date of sample receipt, date of analysis, a statement that the method quality assurance and quality control procedures were followed, the chain of custody documentation, including laboratory receipts, and laboratory decontamination procedures.
- (J) A timetable that includes the following shown on a bar chart:
 - (i) Installation and implementation dates.
 - (ii) Sampling events.
 - (iii) Progress milestones.
 - (iv) Completion dates.
- (K) The corrective action plan must be signed by an environmental professional that is one (1) of the following:
 - (i) A registered professional engineer under IC 25-31-1.
 - (ii) A licensed professional geologist under IC 25-17.6.
 - (iii) A certified hazardous materials manager (CHMM) as certified by the Institute of Hazardous Material Management.
 - (iv) A professional soil scientist registered under IC 25-31.5-4.
- (L) Provisions for progress reports to be submitted quarterly in a format prescribed by the commissioner that include the following:

- (i) A brief narrative of the remediation process.
 - (ii) Documentation and data graphically demonstrating remediation effectiveness.
 - (iii) Quarterly sampling results presented in a tabular format as prescribed by the commissioner with all previous sample data, if previous samples were taken.
 - (iv) Quarterly ground water elevation gauging results presented in a tabular format, as prescribed by the commissioner, showing the following:
 - (AA) Wellhead or measuring point elevation.
 - (BB) Depth to ground water.
 - (CC) Ground water elevation.
 - (v) Updated site maps showing the following:
 - (AA) Soil and ground water contaminant plume delineations.
 - (BB) Ground water elevation contours.
 - (CC) Ground water flow directions.
 - (vi) Signed by an environmental professional that is one (1) of the following:
 - (AA) A registered professional engineer under IC 25-31-1.
 - (BB) A licensed professional geologist under IC 25-17.6.
 - (CC) A certified hazardous materials manager (CHMM) as certified by the Institute of Hazardous Material Management.
 - (DD) A professional soil scientist registered under IC 25-31.5-4.
 - (vii) Discussion of remediation system function, days of operation, and explanation for any time periods remediation system does not operate, and repairs or maintenance performed or needed by the remediation system. This discussion must include volumes of air, soil, or ground water extracted and treated by the remediation system, and effluent stream sample results.
- (M) Provisions for a final report that includes the following:
- (i) Documentation that the cleanup goals and objectives have been achieved.
 - (ii) A signature by an environmental professional that is one (1) of the following:
 - (AA) A registered professional engineer under IC 25-31-1.
 - (BB) A licensed professional geologist under IC 25-17.6.
 - (CC) A certified hazardous materials manager (CHMM) as certified by the Institute of Hazardous Material Management.
 - (DD) A professional soil scientist registered under IC 25-31.5-4.
- (2) The soil cleanup objectives must be determined and met by complying with IC 13-12-3-2.
- (3) The ground water cleanup objectives must be determined and met by complying with IC 13-12-3-2.
- (Solid Waste Management Division; 329 IAC 9-5-7; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1072; errata, 16 IR 1955; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3713; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535; filed Aug 30, 2004, 9:35 a.m.: 28 IR 165)*

329 IAC 9-5-8 Public participation

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 8. (a) For each confirmed release that requires a corrective action plan, the commissioner shall provide notice to the public in a manner designed to reach those members of the public directly affected by the release and the planned corrective action. This notice may include any of the following:

- (1) Public notice in local newspapers.
- (2) Block advertisements.
- (3) Public service announcements.
- (4) Publication in the Indiana Register.
- (5) Letters to individual households.
- (6) Personal contacts by field staff.

(b) The commissioner shall ensure that site release information and decisions concerning the corrective action plan are made available to the public for inspection upon request.

(c) Before approving a corrective action plan, the commissioner may hold a public meeting to consider comments on the proposed corrective action plan if there is sufficient public interest, or for any other reason.

(d) The commissioner shall give public notice that complies with subsection (a) if implementation of an approved corrective action plan does not achieve the established cleanup levels in the plan and termination of the plan is under consideration by the commissioner. *(Solid Waste Management Division; 329 IAC 9-5-8; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1073; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3713; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535)*

Rule 6. Closure

329 IAC 9-6-1 Applicability

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 1. Closure of an UST system must be completed by one (1) of the following methods and the applicable requirements in section 2.5 of this rule:

(1) In-place closure as defined at 329 IAC 9-1-27.3.

(2) Removal closure as defined at 329 IAC 9-1-39.5.

(3) Change-in-service as defined at 329 IAC 9-1-10.4.

(Solid Waste Management Division; 329 IAC 9-6-1; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1073; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3714; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535; filed Aug 30, 2004, 9:35 a.m.: 28 IR 168)

329 IAC 9-6-2 Assessing the site at closure or change-in-service (Repealed)

Sec. 2. *(Repealed by Solid Waste Management Division; filed Aug 30, 2004, 9:35 a.m.: 28 IR 177)*

329 IAC 9-6-2.5 Closure procedure

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-12-3-2; IC 13-23

Sec. 2.5. (a) The procedure for closure is as follows:

(1) At least thirty (30) days before beginning closure, the owner and operator shall notify, using the notification form required by 329 IAC 9-2-2(a), the agency and the office of the state fire marshal of the intent to close as specified by one (1) of the methods in section 1 of this rule unless such action is a part of the response to corrective action.

(2) Closure sampling and laboratory analysis with the associated detection limits for the UST system closure are required as follows:

(A) Quantity and location of soil samples for each closure method are as follows:

(i) In-place closure soil samples must be taken as described in subsection (b).

(ii) Removal closure soil samples must be taken as described in subsection (c).

(iii) Change-in-service soil samples must be taken as described in subsection (d).

(B) Quantity and location of ground water samples for each closure method are as follows:

(i) In-place closure ground water samples must be taken as described in subsection (e).

(ii) Removal closure ground water samples must be taken as described in subsection (f).

(iii) Change-in-service ground water samples must be taken as described in subsection (g).

(C) Laboratory analyses and detection limits for soil samples and ground water samples for all closure methods are as required for the chemical of concern.

(3) If, at any time during the closure process for any method of closure, a release is either suspected or detected in the backfill, native soil, or ground water, the owner or operator shall contact the agency to report within twenty-four (24) hours

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after the release is suspected or detected.

(4) A confirmed release based on the soil and ground water samples taken at the UST removal requires the owner or operator to contact the agency to report within twenty-four (24) hours after the release is confirmed if a leaking underground storage tank (LUST) incident number was not obtained under subdivision (3).

(5) A closure report must be completed and submitted to the agency within thirty (30) days after the UST removal. The closure report must include the following:

(A) The notification form provided by the agency under 329 IAC 9-2-2.

(B) The underground storage tank closure report. The closure report must include the following information:

(i) For the responsible party, the following information:

(AA) The UST system facility owner or operator name, agency's owner identification number, address, and phone number.

(BB) The name of the UST system facility contact person, owner or operator affiliation, and phone number.

(CC) Owners or operators during the last twenty-five (25) years.

(ii) For the UST contractor, the following information:

(AA) UST closure contractor, company name, and address.

(BB) The name of the person on-site during closure that is certified by the office of the state fire marshal to perform UST closure and that person's certification number.

(iii) For the UST site information regarding the following:

(AA) Facility name, agency's facility identification number, address, and phone number.

(BB) Type of facility, past and current operation.

(CC) Coverage, stating if coverage is turf, concrete, asphalt, or other.

(DD) History of any spill reports listed by incident number.

(EE) Site proximity to both human and environmentally sensitive areas, such as residences, schools, wells, well fields, or wellhead protection areas delineated under rules of the water pollution control board at 327 IAC 8-4.1.

(FF) Backfill and site natural soil texture.

(iv) A site-specific map or maps with illustrated legends and compass directions and at appropriate scale to show site details described as follows:

(AA) Drainage features, surface slope, or surface water run-off direction.

(BB) Identified aboveground features, such as buildings, roadways, manways, pump islands, and utility and property lines.

(CC) Identified subsurface features, such as tanks and excavation pit, piping, and utility conduits.

(DD) Locations where samples were taken, soil borings made, and monitoring wells drilled.

(EE) Location of active and previously closed tanks, as applicable.

(FF) Site surroundings, such as adjacent buildings, businesses, or human and environmentally sensitive areas, such as residences, schools, wells, well fields, or wellhead protection areas delineated under rules of the water pollution control board at 327 IAC 8-4.1.

(v) Information for the underground storage tank being closed as follows:

(AA) The number and volume of tanks.

(BB) Past and present contents of the tank.

(CC) Construction material of tank.

(DD) Construction and material of piping.

(EE) Age and installation date of tank.

(FF) Leak detection methods used.

(GG) Records of the most current tank tightness test results.

(HH) Records of any other current leak detection method results including the inventory records, ground water, or vapor monitoring results.

(II) Information on any previously closed UST system, such as the date closed and the number, size, and

- product stored.
- (vi) Physical and chemical results of the samples taken under subdivision (2) as follows:
 - (AA) Data from analysis of soil samples presented in a tabular format.
 - (BB) Data from analysis of water samples presented in a tabular format.
 - (CC) A signed laboratory certificate of analysis listing analysis method, preparation method, date of sample receipt, and date of analysis.
 - (DD) Proper sample identification numbers for cross-reference to UST site maps.
 - (EE) Chain of custody documentation.
 - (FF) Description of the sampling procedures, sampling equipment, and decontamination procedures.
 - (GG) Data from analyses of used oil sampling, as applicable.
 - (vii) Miscellaneous closure documentation, including manifests or receipts, or both, as follows:
 - (AA) Contaminated soil and contaminated water disposal documentation.
 - (BB) Remaining product and sludge disposal documentation.
 - (CC) Tank and piping disposal documentation.
- (6) If one (1) or more additional tanks are discovered during a closure, the owner and operator shall:
- (A) close each additional tank under this rule; and
 - (B) supply all known information on each additional tank in the closure report.
- (7) The commissioner shall require additional information if the closure report is deemed incomplete or incorrect. The commissioner shall provide in writing the reasons for requiring additional information and a list of the additional information required to be submitted. The owner and operator shall have forty-five (45) days to submit the additional information to the agency, after receipt of written notification from the commissioner that additional information is required.
- (8) The closure will not be considered complete until all closure report requirements are met.
- (9) If the underground storage tank contains hazardous substances, the owner and operator shall perform sampling and analyses as required for the chemical of concern.
- (10) The owner and operator shall demonstrate compliance with this section by providing a certification of compliance on the notification form under 329 IAC 9-2-2. The certification must demonstrate that the person that performs the work has been certified by the office of the state fire marshal under rules of the fire prevention and building safety commission at 675 IAC 12-12.
- (b) Soil sampling for in-place closure must be achieved as follows:
- (1) The owner and operator shall submit a site plan with proposed boring locations to the agency with the notification form under 329 IAC 9-2-2 and to the office of the state fire marshal for approval to request in-place closure. The accompanying map must be to scale and include the entire site. Submission of an additional map of solely the underground storage area is recommended for large sites. The boring locations should be as follows:
 - (A) One (1) boring every twenty (20) feet around the tank area, with a minimum of four (4) borings.
 - (B) Each boring must be within three (3) feet adjacent to the underground storage tank.
 - (2) The commissioner may grant conditional approval to proceed with in-place closure of the UST system based on the following:
 - (A) The location of the borings as required under subdivision (1).
 - (B) Approval from the office of the state fire marshal.
 - (3) After approval is received under subdivision (2), the owner and operator may proceed with soil borings that must meet the following requirements:
 - (A) Soil sampling must be performed continuously using a sampling device relevant to the drilling technology used.
 - (B) Borings must extend two (2) feet or greater below the elevation of the base of the underground storage tank.
 - (C) If the boring depth is fifteen (15) feet or less, a minimum of two (2) soil samples are required at the following locations:
 - (i) The point where a contaminant is detected.
 - (ii) One (1) soil sample must be taken at the:
 - (AA) midpoint; and
 - (BB) bottom;

of the boring.

(D) If the boring depth is greater than fifteen (15) feet, a minimum of three (3) soil samples are required. The most shallow soil sample must be taken one (1) foot or greater below grade. Samples must be taken where the release is suspected or detected.

(4) Piping and dispenser sampling and analysis must be completed under subsection (c)(3) or (c)(4).

(5) The waiver of closure sampling requirements under subsection (h) will not be granted for in-place closure.

(c) Soil sampling for removal closure must be achieved as follows:

(1) Soil removal is allowed as follows:

(A) The backfill may be removed from the following to provide access to native soil for sampling:

- (i) Tank cavity excavation.
- (ii) Piping trenches.
- (iii) Dispensing unit areas.
- (iv) Remote fill pipe trenches.

(B) Closure soil samples must be taken from the following:

- (i) Excavated backfill under subdivision (2)(B).
- (ii) Undisturbed native soil under subdivision (2)(A).

(2) Each underground storage tank excavation must be sampled separately. Composite samples are not acceptable for closure. The samples must meet the following requirements:

(A) All samples must be discrete grab samples taken directly from the undisturbed native soil from the base and sidewalls of the excavation. The following requirements apply to samples:

(i) Bottom samples must meet the following requirements:

(AA) Soil sampling must consist of a minimum of two (2) soil samples taken within two (2) feet below both ends of each underground storage tank.

(BB) If the underground storage tank capacity is greater than ten thousand (10,000) gallons, one (1) additional sample must be taken within two (2) feet below the middle of the underground storage tank.

(ii) Sidewall samples must meet the following requirements:

(AA) The sidewalls must be sampled and analyzed at a rate of one (1) sample every twenty (20) feet of perimeter distance around the excavation zone.

(BB) If the perimeter dimension measures less than eighty (80) feet, a minimum of one (1) sample for each sidewall must be taken.

(CC) Sidewall samples must be taken at a point half the distance from the surface to the bottom of the underground storage tank excavation.

(B) Excavated materials must be staged in a separate area. Samples must be discrete grab samples taken directly from the excavated materials. Sampling of the excavated soil must occur for every fifty (50) cubic yards of material.

(3) Native soil under piping and dispenser islands, which routinely contains regulated substances, must be sampled. All samples must be discrete grab samples. The following requirements apply to the number and location of sampling for piping and dispensers:

(A) Soil sampling under piping must be completed as follows:

(i) Soil under piping must be sampled every twenty (20) feet, or fraction thereof, along the piping run. If the piping run is less than twenty (20) feet in length, one (1) soil sample must be taken half the distance between the underground storage tank excavation and the pump or dispenser island.

(ii) Piping must have soil sampled under piping elbows and connectors.

(B) Soils under the dispenser islands must be sampled and analyzed at a rate of one (1) soil sample per dispenser.

(C) If the UST system has a remote fill line, the following soil samples must be collected:

(i) Soils under the remote fill line must be sampled and analyzed at the origin or fill area and every twenty (20) feet, or fraction thereof, from the fill area to the underground storage tank connection.

(ii) If the remote fill line is less than twenty (20) feet, one (1) soil sample must be taken half the distance between the fill area and the underground storage tank.

(D) Composite samples are not acceptable for closure.

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- (4) Soil sampling under the piping and product dispenser islands are not required if the following requirements are complied with:
- (A) All:
 - (i) piping that routinely contains product; and
 - (ii) dispensers;are located directly above the UST system that is being closed.
 - (B) The requirements of clause (A) are documented in the closure report.
- (5) During removal closure, native soil and backfill that is to be returned to the underground storage tank excavation must be sampled. The sampling must meet the following requirements:
- (A) The exposure criteria in accordance with IC 13-12-3-2.
 - (B) One (1) discrete grab sample must be taken for every fifty (50) cubic yards of native soil or backfill.
- (d) Soil sampling for change-in-service must be achieved as follows:
- (1) The boring locations are as follows:
 - (A) One (1) soil boring every twenty (20) feet around the tank area, with a minimum of four (4) borings.
 - (B) Each soil boring must be within three (3) feet adjacent to the underground storage tank.
 - (C) Soil sampling must be performed continuously using a sampling device relevant to the drilling technology used.
 - (D) Each soil boring must extend two (2) feet or greater below the elevation of the base of the underground storage tank.
 - (E) If the soil boring depth is fifteen (15) feet or less, a minimum of two (2) soil samples are required at the following locations:
 - (i) The point where a contaminant is detected.
 - (ii) One (1) soil sample must be taken at the:
 - (AA) midpoint; and
 - (BB) bottom;of the soil boring.
 - (F) If the soil boring depth is greater than fifteen (15) feet, a minimum of three (3) soil samples are required. The most shallow soil sample must be taken one (1) foot or greater below grade. Samples must be collected where the release is suspected or detected.
 - (2) Piping and dispenser sampling and analysis must be completed under subsection (c)(3) or (c)(4).
 - (3) The waiver of closure sampling requirements under subsection (h) will not be granted for change in service.
 - (e) Water samples for an in-place closure must be collected in the following quantities and locations:
 - (1) One (1) boring must be placed in each of the four (4) principal directions within ten (10) feet of the area most likely to have contaminated ground water.
 - (2) Each boring must extend to the first saturated ground water zone or to a total depth of thirty (30) feet below grade at the area of suspected or confirmed release. A water sample must be collected from each boring if ground water is present within a depth of thirty (30) feet or less.
 - (3) If ground water is not encountered within a depth of thirty (30) feet, an additional soil sample must be obtained at the base of the boring or a minimum depth of thirty (30) feet.
 - (4) A ground water sample must be collected within any area where a suspected contaminant release has occurred, or where a chemical of concern release has been substantiated through one (1) of the following:
 - (A) Visual staining of the soil or water.
 - (B) Field screening with the following:
 - (i) Flame ionization detector or FID.
 - (ii) Photo ionization detector or PID.
 - (iii) Field gas chromatograph or GC.
 - (C) Petroleum odors.
 - (D) Laboratory analytical results.
 - (5) If bedrock is encountered in a boring before a depth of thirty (30) feet is reached, and a saturated ground water zone is not encountered in the boring, an owner or operator may contact the agency for approval of alternative sampling or waiver

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of ground water sampling requirements. The agency may approve a waiver of ground water sampling within the bedrock if the owner or operator can demonstrate the following:

- (A) A soil zone at least ten (10) feet thick existing immediately above the bedrock does not have a contaminant.
- (B) A soil sample collected immediately above the bedrock does not have a contaminant.
- (f) Water samples for a removal closure must be collected in the following quantities and locations:
 - (1) If any water is encountered in any excavation, a minimum of one (1) water sample must be appropriately collected from the water encountered.
 - (2) A ground water sample must be collected within any area where a suspected contaminant release has occurred, or where a chemical of concern release has been substantiated through one (1) of the following:
 - (A) Visual staining of the soil or water.
 - (B) Field screening with the following:
 - (i) Flame ionization detector or FID.
 - (ii) Photo ionization detector or PID.
 - (iii) Field gas chromatograph or GC.
 - (C) Petroleum odors.
 - (D) Laboratory analytical results.
 - (3) The sample collected in subdivision (2) must be collected from a continuously sampled boring that extends to the first saturated ground water zone or to a total depth of thirty (30) feet below grade at the area of suspected or confirmed release.
 - (4) If ground water is not encountered within a depth of thirty (30) feet, a soil sample must be obtained at the base of the boring.
 - (5) If bedrock is encountered in a boring before a depth of thirty (30) feet is reached, and a saturated ground water zone is not encountered in the boring, an owner or operator may contact the agency for approval of alternative sampling or waiver of ground water sampling requirements. The agency may approve a waiver of ground water sampling within the bedrock if the owner or operator can demonstrate the following:
 - (A) A soil zone at least ten (10) feet thick existing immediately above the bedrock does not have a contaminant.
 - (B) A soil sample collected immediately above the bedrock does not have a contaminant.
- (g) Water samples for a change-in-service must be collected in the following quantities and locations:
 - (1) One (1) boring must be placed in each of the four (4) principal directions within ten (10) feet of the area most likely to have contaminated ground water.
 - (2) Each boring must extend to the first saturated ground water zone or to a total depth of thirty (30) feet below grade at the area of suspected or confirmed release. A water sample must be collected from each boring if ground water is present within a depth of thirty (30) feet depth or less.
 - (3) If ground water is not encountered within a depth of thirty (30) feet, an additional soil sample must be obtained at the base of the boring or a minimum depth of thirty (30) feet.
 - (4) A ground water sample must be collected within any area where a suspected contaminant release has occurred, or where a chemical of concern release has been substantiated through one (1) of the following:
 - (A) Visual staining of the soil or water.
 - (B) Field screening with the following:
 - (i) Flame ionization detector or FID.
 - (ii) Photo ionization detector or PID.
 - (iii) Field gas chromatograph or GC.
 - (C) Petroleum odors.
 - (D) Laboratory analytical results.
 - (5) If bedrock is encountered in a boring before a depth of thirty (30) feet is reached, and a saturated ground water zone is not encountered in the boring, an owner or operator may contact the agency for approval of alternative sampling or waiver of ground water sampling requirements. The agency may approve a waiver of ground water sampling within the bedrock if the owner or operator can demonstrate the following:
 - (A) A soil zone at least ten (10) feet thick existing immediately above the bedrock does not have a contaminant.
 - (B) A soil sample collected immediately above the bedrock does not have a contaminant.

(h) Closure sampling waiver requirements must be completed as follows:

(1) The commissioner may waive closure sampling based on the following:

(A) The LUST incident number is assigned and the following requirements are completed:

(i) Closure is conducted due to a confirmed release at the site.

(ii) The confirmed release occurred before the request for closure.

(B) The initial site characterization meets the requirements of 329 IAC 9-5-5.1.

(C) The corrective action plan meets the requirements of 329 IAC 9-5-7.

(2) Sites that have previous releases and are not under remediation at the time of closure are not eligible for the closure sampling waiver.

(Solid Waste Management Division; 329 IAC 9-6-2.5; filed Aug 30, 2004, 9:35 a.m.: 28 IR 168)

329 IAC 9-6-3 Applicability to previously closed UST systems

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 3. When directed by the commissioner, the owner and operator of an UST system permanently closed before December 22, 1988, shall assess the excavation zone and close the UST system in accordance with this rule, and the closure must be performed by a person certified under the rules of the fire prevention and building safety commission at 675 IAC 12-12, if releases from the underground storage tank may, in the judgment of the commissioner, pose a current or potential threat to human health and the environment. *(Solid Waste Management Division; 329 IAC 9-6-3; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1074; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3722; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535; filed Aug 30, 2004, 9:35 a.m.: 28 IR 172)*

329 IAC 9-6-4 Closure records

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 4. The owner and operator shall maintain records in accordance with 329 IAC 9-3-1 that are capable of demonstrating compliance with closure requirements under this rule. The results of the excavation zone assessment required in section 2.5 of this rule must be submitted to the agency within thirty (30) days after completion of closure or change-in-service of the UST system. Results of the excavation zone assessment must be maintained for at least three (3) years after completion of closure or change-in-service in one (1) of the following ways:

(1) By the owner and operator who took the UST system out of service.

(2) By the current owner and operator of the UST system site.

(3) By mailing these records to the agency if the records cannot be maintained at the closed facility.

(Solid Waste Management Division; 329 IAC 9-6-4; filed Dec 1, 1992, 5:00 p.m.: 16 IR 1074; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3722; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535; filed Aug 30, 2004, 9:35 a.m.: 28 IR 173; errata filed Dec 2, 2004, 2:50 p.m.: 28 IR 1184)

329 IAC 9-6-5 Temporary closure

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 5. (a) When an UST system is temporarily closed, the owner and operator shall complete the following:

(1) Continue operation and maintenance of corrosion protection under 329 IAC 9-3.1-2.

(2) Continue operation and maintenance of any release detection under 329 IAC 9-7, except release detection is not required as long as the UST system is empty. The UST system is empty when all materials have been removed using commonly employed practices so that no more than:

(A) two and five-tenths (2.5) centimeters or one (1) inch of residue; or

(B) three-tenths percent (0.3%) by weight of the total capacity of the UST system;

remains in the system.

(3) Comply with 329 IAC 9-4 and 329 IAC 9-5 if a release is suspected or confirmed.

(b) When an UST system is temporarily closed for three (3) months or longer, the owner and operator also shall comply with the following requirements:

(1) Leave vent lines open and functioning.

(2) Cap and secure the following:

(A) All other lines.

(B) Pumps.

(C) Manways.

(D) Ancillary equipment.

(c) When an UST system has been temporarily closed for twelve (12) months, the following requirements must be completed:

(1) The owner and operator shall permanently close the UST system if it does not meet the:

(A) performance standards in 329 IAC 9-2-1 for new UST systems; or

(B) upgrading requirements in 329 IAC 9-2.1;

except that the spill and overfill equipment requirements do not have to be met.

(2) The owner and operator shall permanently close the substandard UST system at the end of the temporary twelve (12) month period under sections 1 through 4 of this rule.

(3) The commissioner may grant an extension of the twelve (12) month temporary closure period based on the following:

(A) The owner and operator shall complete a site assessment under section 2 of this rule before the owner and operator may apply for an extension.

(B) The length of the extension is based on the following:

(i) The results of the site assessment under clause (A).

(ii) The owner and operator shall submit written proof that explains why permanent closure cannot take place within the twelve (12) month period of temporary closure.

(iii) The owner and operator shall submit information that explains when permanent closure will take place.

(d) The owner and operator shall demonstrate compliance with this section by providing a certification of compliance on the notification form under 329 IAC 9-2-2. The certification must demonstrate that the person that performs the work has been certified by the office of the state fire marshal under rules of the fire prevention and building safety commission at 675 IAC 12-12. (*Solid Waste Management Division; 329 IAC 9-6-5; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3722; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535; filed Aug 30, 2004, 9:35 a.m.: 28 IR 173*)

Rule 7. Release Detection

329 IAC 9-7-1 General requirements for all UST systems

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 1. (a) All owners and operators of new and existing UST systems shall provide a method, or combination of methods, of release detection that does the following:

(1) Can detect a release from any portion of the tank and the connected underground piping that routinely contains product.

(2) Is installed, calibrated, operated, and maintained in accordance with the manufacturer's instructions, including routine maintenance and service checks for operability or running condition.

(3) Meets the performance requirements in section 4 or 5 of this rule, with any performance claims and the manner of determination of the performance claims described in writing by the equipment manufacturer or installer. In addition, methods used after the date shown in the following table corresponding with the specified method, except for methods permanently installed prior to that date, must be capable of detecting the leak rate or quantity specified for that method in the corresponding citation of this rule shown in the table with a probability of detection (Pd) of ninety-five hundredths (0.95) and a probability of false alarm (Pfa) of five-hundredths (0.05):

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Method	Citation	Date After Which Pd/Pfa Was Demonstrated
Manual tank gauging	section 4(2) of this rule	December 22, 1990
Tank tightness testing	section 4(3) of this rule	December 22, 1990
Automatic tank gauging	section 4(4) of this rule	December 22, 1990
Automatic line leak detectors	section 5(1) of this rule	September 22, 1991
Line tightness testing	section 5(2) of this rule	December 22, 1990

(b) When a release detection method that is operated under the performance standards in sections 4 and 5 of this rule indicates a release may have occurred, the owner and operator shall notify the agency under 329 IAC 9-4.

(c) Owners and operators of all UST systems shall comply with the release detection requirements of this rule by December 22 of the year listed in the following table:

SCHEDULE FOR PHASE-IN OF RELEASE DETECTION

Year System Was Installed	Year When Release Detection Was Required (By December 22 of the Year Indicated)				
	1989	1990	1991	1992	1993
Before 1965 or date unknown	RD	P			
1965-69		P/RD			
1970-74		P	RD		
1975-79		P		RD	
1980-88		P			RD

New tanks (after December 22, 1988) immediately upon installation. P = Shall have begun release detection for all pressurized piping under sections 2(2)(A) and 3(2)(D) of this rule. RD = Shall have begun release detection for tanks and suction piping under sections 2(1), 2(2)(B), and 3 of this rule.

(d) Any existing UST system that cannot apply a method of release detection that complies with this rule shall complete the closure procedures under 329 IAC 9-6-2.5 by the date on which release detection is required for that UST system under subsection (c). (*Solid Waste Management Division; 329 IAC 9-7-1; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3723; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535; filed Aug 30, 2004, 9:35 a.m.: 28 IR 173*)

329 IAC 9-7-2 Requirements for petroleum UST systems

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 2. The owner and operator of a petroleum UST system shall provide release detection for tanks and piping as follows:

(1) Tanks must be monitored at least every thirty (30) days for releases using one (1) of the methods listed in section 4(4) through 4(8) of this rule, except for the following:

(A) An UST system that meets

the performance standards in 329 IAC 9-2-1 or 329 IAC 9-2.1 may use:

(i) the monthly inventory control requirements in section 4(1) or 4(2) of this rule; and

(ii) tank tightness testing conducted under section 4(3) of this rule at least every five (5) years until December 22, 1998, or until ten (10) years after the tank is installed or upgraded under 329 IAC 9-2.1-1(b), whichever is later.

(B) An UST system that does not meet the performance standards in 329 IAC 9-2-1 or 329 IAC 9-2.1 may use:

(i) monthly inventory controls conducted under section 4(1) or 4(2) of this rule; and

(ii) annual tank tightness testing conducted under section 4(3) of this rule;

until December 22, 1998, when the tank must be upgraded under 329 IAC 9-2.1 or closed under 329 IAC 9-6-1 through 329 IAC 9-6-2.5.

(C) Tanks with capacity of five hundred fifty (550) gallons or less may use weekly tank gauging conducted under section 4(2) of this rule.

(2) Underground piping that routinely contains regulated substances must be monitored for releases in a manner that meets

one (1) of the following requirements:

- (A) Underground piping that conveys regulated substances under pressure must:
 - (i) be equipped with an automatic line leak detector under section 5(1) of this rule; and
 - (ii) have an annual line tightness test conducted under section 5(2) of this rule or have monthly monitoring conducted under section 5(3) of this rule.
- (B) Underground piping that conveys regulated substances under suction must either have a line tightness test conducted at least every three (3) years under section 5(2) of this rule or use a monthly monitoring method under section 5(3) of this rule. No release detection is required for suction piping that is designed and constructed to meet the following standards:
 - (i) The below-grade piping operates at less than atmospheric pressure.
 - (ii) The below-grade piping is sloped so that the contents of the pipe will drain back into the storage tank if the suction is released.
 - (iii) Only one (1) check valve is included in each suction line.
 - (iv) The check valve is located directly below and as close as practical to the suction pump.
 - (v) A method is provided that allows compliance with items (ii) through (iv) to be readily determined.

(Solid Waste Management Division; 329 IAC 9-7-2; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3724; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535; filed Aug 30, 2004, 9:35 a.m.: 28 IR 174)

329 IAC 9-7-3 Requirements for hazardous substance UST systems

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 3. The owner and operator of a hazardous substance UST system shall provide release detection that meets the following requirements:

- (1) Release detection at an existing UST system must meet the requirements for a petroleum UST system in section 2 of this rule. By December 22, 1998, all existing hazardous substance UST systems shall meet the release detection requirements for a new system in subdivision (2).
- (2) Release detection at a new hazardous substance UST system must meet the following requirements:
 - (A) Secondary containment systems must be designed, constructed, and installed to complete the following:
 - (i) Contain regulated substances released from the tank system until they are detected and removed.
 - (ii) Prevent the release of regulated substances to the environment at any time during the operational life of the UST system.
 - (iii) Be checked for evidence of a release at least every thirty (30) days.
 - (B) Double-walled tanks must be designed, constructed, and installed to complete the following:
 - (i) Contain a release from any portion of the inner tank within the outer wall.
 - (ii) Detect the failure of the inner wall.
 - (C) External liners, including vaults, must be designed, constructed, and installed to complete the following:
 - (i) Contain one hundred percent (100%) of the capacity of the largest tank within its boundary.
 - (ii) Prevent the interference of precipitation or ground water intrusion with the ability to contain or detect a release of regulated substances.
 - (iii) Surround the tank completely so that the external liners, including vaults, are capable of preventing lateral as well as vertical migration of regulated substances.
 - (D) Underground piping must be equipped with secondary containment that satisfies the requirements of clause (A) and may include either of the following:
 - (i) Trench liners.
 - (ii) Jacketing of double-walled pipe.

In addition, underground piping that conveys regulated substances under pressure must be equipped with an automatic line leak detector under section 5(1) of this rule.

- (E) Other methods of release detection may be used if the owner and operator complete the following:

- (i) Demonstrate to the commissioner that an alternate method can detect a release of the stored substance as effectively as any of the methods under section 4(2) through 4(8) of this rule can detect a release of petroleum.
- (ii) Provide information to the commissioner on effective corrective action technologies, health risks, and chemical and physical properties of the stored substance, and the characteristics of the UST site.
- (iii) Obtain approval from the commissioner to use the alternate release detection method before the installation and operation of the new UST system.

(Solid Waste Management Division; 329 IAC 9-7-3; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3724; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535)

329 IAC 9-7-4 Methods of release detection for tanks

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 4. Each method of release detection for tanks used to meet section 2 of this rule must be conducted in accordance with the following:

(1) Product inventory control, or another test of equivalent performance, must be conducted monthly to detect a release of at least one percent (1.0%) of flow-through plus one hundred thirty (130) gallons on a monthly basis in the following manner:

- (A) Inventory volume measurements for regulated substance inputs, withdrawals, and the amount still remaining in the tank are recorded each operating day.
- (B) The equipment used is capable of measuring the level of product over the full range of the tank's height to the nearest one-eighth (C) of an inch.
- (C) The regulated substance inputs are reconciled with delivery receipts by measurement of the tank inventory volume before and after delivery.
- (D) Product dispensing is metered and recorded within the local standards for meter calibration or an accuracy of six (6) cubic inches for every five (5) gallons of product withdrawn.
- (E) The measurement of any water level in the bottom of the tank is made to the nearest one-eighth (C) of an inch at least once a month.
- (F) Deliveries must be made through a drop tube that extends to within one (1) foot of the tank bottom.

(2) Manual tank gauging must meet the following requirements:

- (A) Tank liquid level measurements are taken at the beginning and ending of a period of at least thirty-six (36) hours during which no liquid is added to or removed from the tank.
- (B) Level measurements are based on an average of two (2) consecutive stick readings at both the beginning and ending of the period in clause (A).
- (C) The equipment used is capable of measuring the level of product over the full range of the tank's height to the nearest one-eighth (C) of an inch.
- (D) A leak is suspected and subject to 329 IAC 9-4 if the variation between beginning and ending measurements exceeds the weekly or monthly standards in the following table:

Nominal Tank Capacity	Weekly Standard (1 Test)	Monthly Standard (Average of 4 Tests)
550 gallons or less	10 gallons	5 gallons
551–1,000 gallons	13 gallons	7 gallons
1,001–2,000 gallons	26 gallons	13 gallons

(E) The following requirements apply:

- (i) Only tanks of five hundred fifty (550) gallons or less nominal capacity may use manual tank gauging as the sole method of release detection.
- (ii) Tanks of five hundred fifty-one (551) to two thousand (2,000) gallons may use manual tank gauging in place of product inventory control in subdivision (1).
- (iii) Tanks of greater than two thousand (2,000) gallons nominal capacity must not use manual tank gauging

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to meet the requirements of this rule.

- (3) Tank tightness testing, or another test of equivalent performance, must be capable of detecting a one-tenth (0.1) gallon per hour leak rate from any portion of the tank that routinely contains product while accounting for the effects of the following:
- (A) Thermal expansion or contraction of the product.
 - (B) Vapor pockets.
 - (C) Tank deformation, evaporation, or condensation.
 - (D) Location of the water table.
- (4) Equipment for automatic tank gauging that tests for the loss of product and conducts inventory control must meet the following requirements:
- (A) The automatic product level monitor test can detect a two-tenths (0.2) gallon per hour leak rate from any portion of the tank that routinely contains product.
 - (B) Inventory control, or another test of equivalent performance, is conducted under subdivision (1).
- (5) Testing or monitoring for vapors within the soil gas of the excavation zone must meet the following requirements:
- (A) The materials used as backfill are sufficiently porous to readily allow diffusion of vapors from releases into the excavation area. The materials used as backfill may include any of the following:
 - (i) Gravel.
 - (ii) Sand.
 - (iii) Crushed rock.
 - (B) The stored regulated substance or a tracer compound placed in the tank system, which may include gasoline as an example, is sufficiently volatile to result in a vapor level that is detectable by the monitoring devices located in the excavation zone in the event of a release from the tank.
 - (C) The measurement of vapors by the monitoring device is not rendered inoperative by the:
 - (i) ground water;
 - (ii) rainfall;
 - (iii) soil moisture; or
 - (iv) other known interferences;so that a release could go undetected for more than thirty (30) days.
 - (D) The background level for contaminants in the excavation zone must not interfere with the method used to detect releases from the tank.
 - (E) The vapor monitors are designed and operated to detect any significant increase in concentration above background of any of the following:
 - (i) The regulated substance stored in the tank system.
 - (ii) A component or components of the regulated substance stored in the tank system.
 - (iii) A tracer compound placed in the tank system.
 - (F) In the UST excavation zone, the site is assessed to:
 - (i) ensure compliance with clauses (A) through (D); and
 - (ii) establish the number and positioning of observation wells that will detect releases within the excavation zone from any portion of the tank that routinely contains product.
 - (G) Observation wells are clearly marked and secured to prevent damage and unauthorized access and tampering.
- (6) Testing or monitoring for liquids on the ground water must meet the following requirements:
- (A) The regulated substance stored is immiscible in water and has a specific gravity of less than one (1).
 - (B) Ground water is never more than twenty (20) feet from the ground surface. The hydraulic conductivity of the soil between the UST system and the observation wells, monitoring wells, or monitoring devices is not less than one-hundredth (0.01) centimeter per second. The soil may consist of any of the following:
 - (i) Gravel.
 - (ii) Coarse to medium sand.
 - (iii) Coarse silt.
 - (iv) Other permeable material.

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- (C) The slotted portion of the observation well casing must be designed to:
 - (i) prevent migration of natural soils or filter pack into the well; and
 - (ii) allow entry of regulated substance on the water table into the well under both high and low ground water conditions.
 - (D) Observation wells must be sealed from the ground surface to the top of the filter pack.
 - (E) Observation wells, monitoring wells, or monitoring devices must be located as follows:
 - (i) An observation well intercepts the excavation zone.
 - (ii) A monitoring well that meets the requirements of rules of the natural resources commission at 312 IAC 13 is installed as close to the excavation zone as is technically feasible if an observation well cannot intercept the excavation zone.
 - (iii) A monitoring device intercepts the excavation zone or is as close to the excavation zone as is technically feasible.
 - (F) The continuous monitoring devices or manual methods used can detect the presence of at least one-eighth (C) of an inch of free product on top of the ground water in the observation wells or monitoring wells.
 - (G) Within and immediately below the UST system excavation zone, the site is assessed to:
 - (i) ensure compliance with clauses (A) through (E); and
 - (ii) establish the number and positioning of observation wells, monitoring wells, or monitoring devices that will detect releases from any portion of the tank that routinely contains product.
 - (H) Observation wells and monitoring wells are clearly marked and secured to prevent damage and unauthorized access and tampering.
- (7) Interstitial monitoring between the UST system and a secondary barrier immediately around or beneath it may be used, but only if the system is designed, constructed, and installed to detect a leak from any portion of the tank that routinely contains product and also meets one (1) of the following requirements:
- (A) For a double-walled UST system, the sampling or testing method can detect a release through the inner wall in any portion of the tank that routinely contains product.
 - (B) For an UST system with a secondary barrier within the excavation zone, the sampling or testing method used can detect a release between the UST system and the secondary barrier. The following must be completed:
 - (i) The secondary barrier around or beneath the UST system consists of artificially constructed material that is sufficiently thick and impermeable (no more than 1×10^{-6} centimeters per second for water) to direct a release to an observation well and allow its detection.
 - (ii) The barrier is compatible with the regulated substance stored so that a release from the UST system will not cause a deterioration of the barrier allowing a release to pass through undetected.
 - (iii) For cathodically protected tanks, the secondary barrier must be installed so that the secondary barrier does not interfere with the proper operation of the cathodic protection system.
 - (iv) The ground water, soil moisture, or rainfall must not render the testing or sampling method used inoperative so that a release could go undetected for more than thirty (30) days.
 - (v) The site is assessed to ensure that the secondary barrier is always above the ground water and not in a twenty-five (25) year flood plain unless the barrier and observation well designs are for use under such conditions.
 - (vi) Observation wells are clearly marked and secured to prevent damage and unauthorized access and tampering.
 - (C) For tanks with an internally fitted liner, the following must be completed:
 - (i) An automated device that can detect a release between the inner wall of the tank and the liner.
 - (ii) The liner is compatible with the substance stored.
- (8) Any other type of release detection method, or combination of methods, may be used if one (1) of the following is completed:
- (A) The release detection method or combination of methods must meet the following requirements:
 - (i) Capability to detect a two-tenths (0.2) gallon per hour leak rate or a release of one hundred fifty (150) gallons within a month.

(ii) Probability of detection of ninety-five hundredths (0.95) and a probability of false alarm of five-hundredths (0.05).

(iii) The method is third party certified.

(B) The commissioner may approve another method if the owner and operator can demonstrate that the method can detect a release as effectively as any of the methods allowed in subdivisions (3) through (7) and clause (A). In comparing methods, the commissioner shall consider the size of release that the method can detect and the frequency and reliability with which it can be detected. If the method is approved, the owner and operator shall comply with any conditions imposed by the commissioner on the method's use to ensure the protection of human health and the environment.

(Solid Waste Management Division; 329 IAC 9-7-4; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3725; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535; filed Aug 30, 2004, 9:35 a.m.: 28 IR 175)

329 IAC 9-7-5 Methods of release detection for piping

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 5. Each method of release detection for piping used to meet section 2 of this rule must be conducted in accordance with the following:

(1) Automatic line leak detectors. Methods that alert the operator to the presence of a leak by:

(A) restricting or shutting off the flow of regulated substances through piping; or

(B) triggering an audible or visual alarm;

may be used only if it detects leaks of at least three (3) gallons per hour at ten (10) pounds per square inch line pressure within one (1) hour. An annual test of the operation of the automatic line leak detector must be conducted in accordance with the manufacturer's requirements.

(2) Line tightness testing. A periodic line tightness test of piping may be conducted only if it can detect a one-tenth (0.1) gallon per hour leak rate at one and one-half (1½) times the operating pressure.

(3) Applicable tank methods. Any of the methods in section 4(5) through 4(8) of this rule may be used if the methods are designed to detect a release from any portion of the underground piping that routinely contains regulated substances.

(Solid Waste Management Division; 329 IAC 9-7-5; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3727; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535; filed Aug 30, 2004, 9:35 a.m.: 28 IR 177)

329 IAC 9-7-6 Release detection record keeping (Repealed)

Sec. 6. *(Repealed by Solid Waste Management Division; filed Aug 30, 2004, 9:35 a.m.: 28 IR 177)*

329 IAC 9-7-7 Release detection certification of compliance

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23

Sec. 7. The owner and operator shall demonstrate compliance with this rule by providing a certification of compliance on the underground storage tank notification form under 329 IAC 9-2-2. The certification must demonstrate that the person that performs the work has been certified by the office of the state fire marshal under rules of the fire prevention and building safety commission at 675 IAC 12-12. *(Solid Waste Management Division; 329 IAC 9-7-7; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3728; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535)*

Rule 8. Financial Responsibility

329 IAC 9-8-1 Applicability

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23-4-1; IC 13-23-4-2

Sec. 1. (a) This rule applies to owners and operators of all petroleum UST systems except as otherwise provided in this section.

(b) Owners and operators of petroleum UST systems are subject to this rule if they are in operation on or after the date for compliance established in section 2 of this rule.

(c) State and federal government entities whose debts and liabilities are the debts and liabilities of a state or the United States are exempt from the requirements of this rule.

(d) The requirements of this rule do not apply to an owner and operator of any UST system described in 329 IAC 9-1-1(b) or 329 IAC 9-1-1(c).

(e) If the owner and operator of a petroleum underground storage tank are separate persons, only one (1) person is required to demonstrate financial responsibility; however, both parties are liable in the event of noncompliance. Regardless of which party complies, the date set for compliance at a particular facility is determined by the characteristics of the owner as set forth in section 2 of this rule. (*Solid Waste Management Division; 329 IAC 9-8-1; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3728; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-8-2 Compliance dates

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23-4-1; IC 13-23-4-2

Sec. 2. Owners of petroleum underground storage tanks are required to comply with the requirements of this rule by the following dates:

(1) All petroleum marketing firms owning one thousand (1,000) or more underground storage tanks and all other underground storage tank owners that report a tangible net worth of twenty million dollars (\$20,000,000) or more to:

(A) the U.S. Securities and Exchange Commission (SEC);

(B) Dun and Bradstreet;

(C) the Energy Information Administration; or

(D) the Rural Utilities Service of the United States Department of Agriculture (formerly the Rural Electrification Administration);

by January 24, 1989, except that compliance with section 5(b) of this rule is required by July 24, 1989.

(2) All petroleum marketing firms owning one hundred (100) to nine hundred ninety-nine (999) underground storage tanks by October 26, 1989.

(3) All petroleum marketing firms owning thirteen (13) to ninety-nine (99) underground storage tanks at more than one (1) facility by April 26, 1991.

(4) All petroleum underground storage tank owners not described in subdivision (1), (2), or (3), excluding local government entities by December 31, 1993.

(5) All local government entities, including Indian tribes, not included in subdivision (6) by February 18, 1994.

(6) Indian tribes that own underground storage tanks on Indian lands that meet the applicable technical requirements of this article by December 31, 1998.

(*Solid Waste Management Division; 329 IAC 9-8-2; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3728; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-8-3 Definitions

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-13-1-1; IC 13-23-4-1; IC 13-23-4-2

Sec. 3. (a) The definitions in this section apply throughout this rule.

(b) "Accidental release" means any:

- (1) sudden; or
- (2) nonsudden;

release of petroleum from an underground storage tank that results in a need for corrective action or compensation or both for bodily injury or property damage neither expected nor intended by the tank owner or operator.

(c) "Bodily injury" has the meaning given to this term by applicable state law; however, this term must not include those liabilities that, consistent with standard insurance industry practices, are excluded from coverage in liability insurance policies for bodily injury.

(d) "Chief financial officer", in the case of a local government owner and operator, means the individual with the overall authority and responsibility for the collection, disbursement, and use of funds by the local government.

(e) "Commissioner" means the commissioner of the department of environmental management as created under IC 13-13-1-1.

(f) "Controlling interest" means direct ownership of at least fifty percent (50%) of the voting stock of another entity.

(g) "Financial reporting year" means the latest consecutive twelve (12) month fiscal or calendar year period for which any of the following reports used to support a financial test is prepared:

- (1) A 10-K report submitted to the U.S. Securities and Exchange Commission (SEC).
- (2) An annual report of tangible net worth submitted to Dun and Bradstreet.
- (3) Annual reports submitted to the Energy Information Administration or the Rural Utilities Service of the United States Department of Agriculture (formerly the Rural Electrification Administration).

(h) "Legal defense cost" means any expense that an owner or operator, or provider of financial assurance incurs in defending against claims or actions brought by any of the following:

- (1) By the United States Environmental Protection Agency (EPA) or Indiana to require corrective action or recover the costs of corrective action.
- (2) By or on behalf of a third party for bodily injury or property damage caused by an accidental release.
- (3) By any person to enforce the terms of a financial assurance mechanism.

(i) "Local government" includes any of the following:

- (1) City.
- (2) County.
- (3) County solid waste management district.
- (4) Joint solid waste management district.
- (5) Municipal corporation.
- (6) Municipality.
- (7) School corporation.
- (8) Special district.
- (9) Special taxing district.
- (10) Town.
- (11) Township.
- (12) Unit.
- (13) Indian tribe.
- (14) Any other legal entity given this term by applicable state law.

(j) "Occurrence" means an accident, including continuous or repeated exposure to conditions, that results in a release from an underground storage tank. The definition of this term is intended to assist in the understanding of this rule and is not intended either to limit the meaning of occurrence in a way that conflicts with standard insurance usage or to prevent the use of other standard insurance terms in place of occurrence.

(k) "Owner or operator", when the owner or operator are separate parties, means the party that is obtaining or has obtained financial assurance.

(l) "Petroleum marketing facilities" means all facilities at which petroleum is produced or refined and all facilities from which petroleum is sold or transferred to other petroleum marketers or to the public.

(m) "Petroleum marketing firms" means all firms owning petroleum marketing facilities. Firms owning other types of

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facilities with underground storage tanks as well as petroleum marketing facilities are considered to be petroleum marketing firms.

(n) "Property damage" has the meaning given this term by applicable state law. This term must not include those liabilities that, consistent with standard insurance industry practices, are excluded from coverage in liability insurance policies for property damage. However, such exclusions for property damage must not include corrective action associated with releases from tanks covered by the policy.

(o) "Provider of financial assurance" means an entity that provides financial assurance to an owner or operator of an underground storage tank through one (1) of the mechanisms listed in sections 6 through 13 of this rule, including any of the following:

- (1) Guarantor.
- (2) Insurer.
- (3) Risk retention group.
- (4) Surety.
- (5) Issuer of a letter of credit.
- (6) Issuer of a state-required mechanism.
- (7) State.

(p) "Substantial governmental relationship" means the extent of a governmental relationship necessary under applicable state law to make an added guarantee contract issued incident to that relationship valid and enforceable. A guarantee contract is issued incident to that relationship if it arises from a clear commonality of interest in the event of an underground storage tank release, including any of the following:

- (1) Coterminous boundaries.
- (2) Overlapping constituencies.
- (3) Common ground water aquifer.
- (4) Other relationship other than monetary compensation that provides a motivation for the guarantor to provide a guarantee.

(q) "Tangible net worth" means the tangible assets that remain after deducting liabilities; such assets do not include intangibles such as goodwill and rights to patents or royalties. As used in this subsection, "assets" means all existing and all probable future economic benefits obtained or controlled by a particular entity as a result of past transactions.

(r) "Termination", under section 8(b) of this rule, means only those changes that could result in a gap in coverage as where the insured has:

- (1) not obtained substitute coverage; or
- (2) obtained substitute coverage with a different retroactive date than the retroactive date of the original policy.

(Solid Waste Management Division; 329 IAC 9-8-3; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3728; errata filed Sep 10, 1999, 9:08 a.m.: 23 IR 26; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535)

329 IAC 9-8-4 Amount and scope of required financial responsibility

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23-4-1; IC 13-23-4-2

Sec. 4. (a) An owner or operator of a petroleum underground storage tank shall demonstrate financial responsibility for taking corrective action and for compensating third parties for bodily injury and property damage caused by accidental releases arising from the operation of a petroleum underground storage tank in a per occurrence amount of at least one million dollars (\$1,000,000).

(b) An owner or operator of a petroleum underground storage tank shall demonstrate financial responsibility for taking corrective action and for compensating third parties for bodily injury and property damage caused by accidental releases arising from the operation of a petroleum underground storage tank in at least the following annual aggregate amounts:

- (1) For an owner or operator of one (1) to one hundred (100) petroleum underground storage tanks, one million dollars (\$1,000,000).
- (2) For an owner or operator of one hundred one (101) or more petroleum underground storage tanks, two million dollars (\$2,000,000).

(c) As used in subsections (b) and (f), "petroleum underground storage tank" means a single containment unit and does not

mean combinations of single containment units.

(d) Except as provided in subsection (e), if the owner or operator uses separate mechanisms or separate combinations of mechanisms to demonstrate financial responsibility for:

- (1) taking corrective action;
- (2) compensating third parties for bodily injury and property damage caused by sudden accidental releases; or
- (3) compensating third parties for bodily injury and property damage caused by nonsudden accidental releases;

the amount of assurance provided by each mechanism or combination of mechanisms must be in the full amount specified in subsections (a) and (b).

(e) If an owner or operator uses separate mechanisms or separate combinations of mechanisms to demonstrate financial responsibility for different petroleum underground storage tanks, the annual aggregate required must be based on the number of tanks covered by each such separate mechanism or combination of mechanisms.

(f) The owner or operator shall review the amount of aggregate assurance provided whenever additional petroleum underground storage tanks are acquired or installed. The owner or operator shall complete the following:

- (1) If the number of petroleum underground storage tanks for which assurance must be provided exceeds one hundred (100), the owner or operator shall demonstrate financial responsibility in the amount of at least two million dollars (\$2,000,000) of annual aggregate assurance by the anniversary of the date on which the mechanism demonstrating financial responsibility has become effective.
- (2) If assurance is demonstrated by a combination of mechanisms, the owner or operator shall demonstrate financial responsibility in the amount of at least two million dollars (\$2,000,000) of annual aggregate assurance by the first occurring effective date anniversary of any one (1) of the mechanisms combined (other than a financial test or guarantee) to provide assurance.

(g) The amounts of assurance required under this section exclude legal defense costs.

(h) The required per occurrence and annual aggregate coverage amounts do not in any way limit the liability of the owner or operator. (*Solid Waste Management Division; 329 IAC 9-8-4; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3730; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-8-5 Allowable mechanisms and combinations of mechanisms

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23-4-1; IC 13-23-4-2

Sec. 5. (a) Subject to the limitations of subsections (b) and (c), an owner or operator may use the following to demonstrate financial responsibility:

(1) An owner or operator, including a local government owner or operator, may use any one (1) or combination of the mechanisms listed in sections 6 through 13 of this rule to demonstrate financial responsibility under this rule for one (1) or more underground storage tanks.

(2) A local government owner or operator may use any one (1) or combination of the mechanisms listed in sections 14 through 17 of this rule to demonstrate financial responsibility under this rule for one (1) or more underground storage tanks.

(b) An owner or operator may use a:

- (1) guarantee under section 7 or 11(c)(8) of this rule; or
- (2) surety bond under section 9 of this rule;

to establish financial responsibility only if the attorney general of Indiana has submitted a written statement to the commissioner that a guarantee or surety bond executed as described in this section is a legally valid and enforceable obligation in Indiana.

(c) An owner or operator may use self-insurance in combination with a guarantee only if, for the purpose of meeting the requirements of the financial test under this rule, the financial statements of the owner or operator are not consolidated with the financial statements of the guarantor. (*Solid Waste Management Division; 329 IAC 9-8-5; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3730; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-8-6 Financial test of self-insurance

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23-4-1; IC 13-23-4-2

Sec. 6. (a) An:

- (1) owner or operator and guarantor;
- (2) owner or operator; or
- (3) guarantor;

may satisfy the requirements of section 4 of this rule by passing a financial test as specified in this section. To pass the financial test of self-insurance, the owner or operator and guarantor, the owner or operator, or the guarantor shall meet the criteria of subsection (b) or (c) based on year end financial statements for the latest completed fiscal year.

(b) The owner or operator and guarantor, the owner or operator, or the guarantor shall complete the following:

(1) The owner or operator and guarantor, the owner or operator, or the guarantor shall have a tangible net worth of at least ten (10) times:

(A) the total of the applicable aggregate amount required by:

- (i) section 4 of this rule, based on the number of underground storage tanks for which a financial test is used to demonstrate financial responsibility to the commissioner under this rule; or
- (ii) the EPA under 40 CFR 280.93 and 40 CFR 280.95;

(B) the sum of the corrective action cost estimates, the current closure and post-closure care cost estimates, and amount of liability coverage for which a financial test is used to demonstrate financial responsibility to:

- (i) the commissioner under 329 IAC 3.1-9, 329 IAC 3.1-14, and 329 IAC 3.1-15; or
- (ii) the EPA under:

- (AA) 40 CFR 264.101;
- (BB) 40 CFR 264.143;
- (CC) 40 CFR 264.145;
- (DD) 40 CFR 264.147;
- (EE) 40 CFR 265.143;
- (FF) 40 CFR 265.145; and
- (GG) 40 CFR 265.147; and

(C) the sum of current plugging and abandonment cost estimates for which a financial test is used to demonstrate financial responsibility:

- (i) under a state program authorized by the EPA under 40 CFR 145; or
- (ii) to the EPA under 40 CFR 144.63.

(2) The owner or operator and guarantor, the owner or operator, or the guarantor shall have a tangible net worth of at least ten million dollars (\$10,000,000).

(3) The owner or operator and guarantor, the owner or operator, or the guarantor shall have a letter signed by the chief financial officer worded as specified in subsection (d).

(4) The owner or operator and guarantor, the owner or operator, or the guarantor shall complete either of the following:

(A) File financial statements annually with the U.S. Securities and Exchange Commission (SEC), the Energy Information Administration, or the Rural Utilities Service of the United States Department Of Agriculture (formerly the Rural Electrification Administration).

(B) Report annually the firm's tangible net worth to Dun and Bradstreet. Dun and Bradstreet shall have assigned the firm a financial strength rating of 4A or 5A.

(5) The firm's year end financial statements, if independently audited, cannot include:

- (A) an adverse auditor's opinion;
- (B) a disclaimer of opinion; or
- (C) a going concern qualification.

(c) The owner or operator and guarantor, the owner or operator, or the guarantor shall complete the following:

(1) The owner or operator and guarantor, the owner or operator, or the guarantor shall meet the financial test requirements

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of 40 CFR 265.147(f)(1), substituting the appropriate amounts specified in section 4(b) of this rule for the amount of liability coverage each time specified in that section. 40 CFR 265.147(f)(1), revised as of July 1, 1997, is incorporated by reference. The Code of Federal Regulations is available from the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402.

(2) The fiscal year end financial statements of the owner or operator and guarantor, the owner or operator, or the guarantor must be examined by an independent certified public accountant and be accompanied by the accountant's report of the examination.

(3) The firm's year end financial statements cannot include:

- (A) an adverse auditor's opinion;
- (B) a disclaimer of opinion; or
- (C) a going concern qualification.

(4) The owner or operator and guarantor, the owner or operator, or the guarantor shall have a letter signed by the chief financial officer, worded as specified in subsection (d).

(5) If the financial statements of the owner or operator and guarantor, the owner or operator, or the guarantor are not submitted annually to the U.S. Securities and Exchange Commission (SEC), the Energy Information Administration, or the Rural Utilities Service of the United States Department of Agriculture (formerly the Rural Electrification Administration), the owner or operator and guarantor, the owner or operator, or the guarantor shall obtain a special report by an independent certified public accountant stating that:

- (A) the independent certified public accountant has compared the data that the letter from the chief financial officer specifies as having been derived from the latest year end financial statements of the owner or operator and guarantor, the owner or operator, or the guarantor with the amounts in such financial statements; and
- (B) in connection with that comparison, no matters came to the attention that caused the certified public accountant to believe that the specified data should be adjusted.

(d) To demonstrate that it meets the financial test under subsection (b) or (c), the chief financial officer of the owner or operator or guarantor shall sign, within one hundred twenty (120) days of the close of each financial reporting year as defined by the twelve (12) month period for which financial statements used to support the financial test are prepared, a letter worded exactly as follows, except that the instructions in brackets are to be replaced by the relevant information and the brackets deleted:

Letter from Chief Financial Officer

I am the chief financial officer of [insert name and address of the owner or operator or guarantor]. This letter is in support of the use of [insert "the financial test of self-insurance" or "guarantee" or both of those phrases] to demonstrate financial responsibility for [insert "taking corrective action" or "compensating third parties for bodily injury and property damage" or both of those phrases] caused by [insert "sudden accidental releases" or "nonsudden accidental releases" or both of those phrases] in the amount of at least [insert dollar amount] per occurrence and [insert dollar amount] annual aggregate arising from operating (an) underground storage tank(s).

Underground storage tanks at the following facilities are assured by this financial test, a financial test under an authorized state program, or a financial test under the United States Environmental Protection Agency (EPA) regulations by this [insert "owner or operator" or "guarantor" or both of those phrases]: [List for each facility the name and address of the facility where tanks assured by this financial test are located, and whether tanks are assured by this financial test, a financial test under a state program approved under 40 CFR 281, or a financial test under EPA under 40 CFR 280.95. If separate mechanisms or combinations of mechanisms are being used to assure any of the tanks at this facility, list each tank assured by this financial test, a financial test under a state program authorized under 40 CFR 281, or a financial test under EPA under 40 CFR 280.95 by the tank identification number provided in the notification submitted pursuant to 329 IAC 9-2-2, the applicable regulation of a state program authorized under 40 CFR 281, or EPA under 40 CFR 280.22.]

A [insert "financial test" or "guarantee" or both of those phrases] is also used by this [insert "owner or operator" or "guarantor"] to demonstrate evidence of financial responsibility in the following amounts under other EPA regulations or state programs authorized by EPA under 40 CFR 271 and 40 CFR 145:

Indiana Rules	Amount
Closure (329 IAC 3.1-14-4 through 329 IAC	
3.1-14-12 and 329 IAC 3.1-15-4)	\$_____

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Post-Closure Care (329 IAC 3.1-14-14 through 329 IAC 3.1-14-22 and 329 IAC 3.1-15-6)	\$ _____
Liability Coverage (329 IAC 3.1-14-24 and 329 IAC 3.1-15-8)	\$ _____
Corrective Action (329 IAC 3.1-9-1)	\$ _____
Authorized State Rules under 40 CFR 145	
Plugging and Abandonment	\$ _____
EPA Regulations	
Closure (40 CFR 264.143 and 40 CFR 265.143)	\$ _____
Post-Closure Care (40 CFR 264.145 and 40 CFR 265.145)	\$ _____
Liability Coverage (40 CFR 264.147 and 40 CFR 265.147)	\$ _____
Corrective Action (40 CFR 264.101(b))	\$ _____
Plugging and Abandonment (40 CFR 144.63)	\$ _____
Total	\$ _____

This [insert "owner or operator" or "guarantor"] has not received an adverse opinion, a disclaimer of opinion, or a going concern qualification from an independent auditor on his or her financial statements for the latest completed fiscal year.

[Fill in the information for Alternative I if the criteria of 329 IAC 9-8-6(b) are being used to demonstrate compliance with the financial test requirements. Fill in the information for Alternative II if the criteria of 329 IAC 9-8-6(c) are being used to demonstrate compliance with the financial test requirements.]

Alternative I

1. Amount of annual UST aggregate coverage being assured by a financial test or guarantee or both	\$ _____
2. Amount of corrective action, closure and post-closure care costs, liability coverage, and plugging and abandonment costs covered by a financial test or guarantee or both	\$ _____
3. Sum of lines 1 and 2	\$ _____
4. Total tangible assets	\$ _____
5. Total liabilities (if any of the amount reported on line 3 is included in total liabilities, you may deduct that amount from this line and add that amount to line 6)	\$ _____
6. Tangible net worth (subtract line 5 from line 4)	\$ _____
	Yes No
7. Is line 6 at least \$10 million?	___ ___
8. Is line 6 at least 10 times line 3?	___ ___
9. Have financial statements for the latest fiscal year been filed with the U.S. Securities and Exchange Commission (SEC)?	___
10. Have financial statements for the latest fiscal year been filed with the Energy Information Administration?	___
11. Have financial statements for the latest fiscal year been filed with the Rural Utilities Service of the United States Department Of Agriculture (formerly the Rural Electrification Administration)?	___
12. Has financial information been provided to Dun and Bradstreet, and has Dun and Bradstreet provided a financial strength rating of 4A or 5A?	___

(Answer "Yes" only if both criteria have been met.)

Alternative II

1. Amount of annual UST aggregate coverage being assured by a financial test or guarantee or both	\$ _____
2. Amount of corrective action, closure and post-closure care costs, liability coverage, and plugging and abandonment costs covered by a financial test or guarantee or both	\$ _____
3. Sum of lines 1 and 2	\$ _____
4. Total tangible assets	\$ _____
5. Total liabilities (if any of the amount reported on line 3 is included in total liabilities, you may deduct that amount from this line and add that amount to line 6)	\$ _____
6. Tangible net worth (subtract line 5 from line 4)	\$ _____

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7. Total assets in the U.S. (required only if less than 90 percent of assets are located in the U.S.) \$ _____
Yes No
8. Is line 6 at least \$10 million? _____
9. Is line 6 at least 6 times line 3? _____
10. Are at least 90 percent of assets located in the U.S.? (If "No," complete line 11.) _____
11. Is line 7 at least 6 times line 3? _____
- [Fill in either lines 12-15 or lines 16-18]
12. Current assets \$ _____
13. Current liabilities \$ _____
14. Net working capital (subtract line 13 from line 12) \$ _____
Yes No
15. Is line 14 at least 6 times line 3? _____
16. Current bond rating of most recent bond issue _____
17. Name of rating service _____
18. Date of maturity of bond _____
19. Have financial statements for the latest fiscal year been filed with the U.S. Securities and Exchange Commission (SEC), the Energy Information Administration, or the Rural Utilities Service of the United States Department of Agriculture (formerly the Rural Electrification Administration)? _____
- [If "No," please attach a report from an independent certified public accountant certifying that there are no material differences between the data as reported in lines 4-18 above and the financial statements for the latest fiscal year.]
- [For both Alternative I and Alternative II, complete the certification with this statement.]
- I hereby certify that the wording of this letter is identical to the wording specified in 329 IAC 9-8-6(d) as such regulations were constituted on the date shown immediately below.
- [Signature]
- [Name]
- [Title]
- [Date]

(e) If an owner or operator using the test to provide financial assurance finds that the owner no longer meets the requirements of the financial test based on the year end financial statements, the owner or operator shall obtain alternative coverage within one hundred fifty (150) days of the end of the year for which financial statements have been prepared.

(f) The commissioner may require reports of financial condition at any time from the owner or operator and guarantor, the owner or operator, or the guarantor. If the commissioner finds, on the basis of such reports or other information, that the owner or operator and guarantor, the owner or operator, or the guarantor no longer meets the financial test requirements of subsections (b) or (c) and (d), the owner or operator shall obtain alternate coverage within thirty (30) days after notification of such a finding.

(g) If the owner or operator fails to obtain alternate assurance within:

(1) one hundred fifty (150) days of finding that the owner no longer meets the requirements of the financial test based on the year end financial statements; or

(2) thirty (30) days of notification by the commissioner that the owner no longer meets the requirements of the financial test; the owner or operator shall notify the commissioner of such failure within ten (10) days. (*Solid Waste Management Division; 329 IAC 9-8-6; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3731; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-8-7 Guarantee

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23-4-1; IC 13-23-4-2

Sec. 7. (a) An owner or operator may satisfy the requirements of section 4 of this rule by obtaining a guarantee that conforms to this section. The guarantor shall be a firm that:

(1) possesses a controlling interest in the owner or operator;

(2) possesses a controlling interest in a firm described under subdivision (1); or

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(3) is controlled through stock ownership by a common parent firm that possesses a controlling interest in the owner or operator.

(b) The guarantor shall complete the following:

(1) Within one hundred twenty (120) days of the close of each financial reporting year, the guarantor shall demonstrate that it meets the financial test criteria of section 6 of this rule based on year end financial statements for the latest completed financial reporting year by completing the letter from the chief financial officer described in section 6(d) of this rule and shall deliver the letter to the owner or operator.

(2) If the guarantor fails to meet the requirements of the financial test at the end of any financial reporting year, within one hundred twenty (120) days of the end of that financial reporting year, the guarantor shall send by certified mail, before cancellation or nonrenewal of the guarantee, notice to the owner or operator.

(3) If the commissioner notifies the guarantor that the guarantor no longer meets the requirements of the financial test of section 6(b) or 6(c) and 6(d) of this rule, the guarantor shall notify the owner or operator within ten (10) days of receiving such notification from the commissioner.

As used in subdivisions (2) and (3), the guarantee terminates no less than one hundred twenty (120) days after the date the owner or operator receives the notification as evidenced by the return receipt. The owner or operator shall obtain alternative coverage as specified in section 20(c) of this rule.

(c) The guarantee must be worded as follows, except that instructions in brackets are to be replaced with the relevant information and the brackets deleted:

Guarantee

Guarantee made this [date] by [insert name of guaranteeing entity], a business entity organized under the laws of the state of [insert name of state], herein referred to as guarantor, to the Indiana Department of Environmental Management (IDEM) and to any and all third parties, and obligees, on behalf of [owner or operator] of [business address].

Recitals

1. Guarantor meets or exceeds the financial test criteria of 329 IAC 9-8-6(b) or 329 IAC 9-8-6(c) and 329 IAC 9-8-6(d) and agrees to comply with the requirements for guarantors as specified in 329 IAC 9-8-7(b).

2. [Owner or operator] owns or operates the following underground storage tank(s) covered by this guarantee: [List the number of tanks at each facility and the name(s) and address(es) of the facility(ies) where the tanks are located. If more than one instrument is used to assure different tanks at any one facility, for each tank covered by this instrument, list the tank identification number provided in the notification submitted pursuant to 329 IAC 9-2-2, and the name and address of the facility.] This guarantee satisfies 329 IAC 9-8 requirements for assuring funding for [insert "taking corrective action" or "compensating third parties for bodily injury and property damage caused by" or "taking corrective action and compensating third parties for bodily injury and property damage caused by" either "sudden accidental releases" or "nonsudden accidental releases" or "accidental releases"; if coverage is different for different tanks or locations, indicate the type of coverage applicable to each tank or location] arising from operating the above-identified underground storage tank(s) in the amount of [insert dollar amount] per occurrence and [insert dollar amount] annual aggregate.

3. [Insert appropriate phrase "On behalf of our subsidiary" (if guarantor is a corporate parent of the owner or operator) or "On behalf of our affiliate" (if guarantor is a related firm of the owner or operator)] [owner or operator], guarantor guarantees to IDEM and to any and all third parties that:

In the event that [owner or operator] fails to provide alternative coverage within 60 days after receipt of a notice of cancellation of this guarantee and the IDEM commissioner has determined or suspects that a release has occurred at an underground storage tank covered by this guarantee, the guarantor, upon instructions from the IDEM commissioner, shall fund a standby trust fund in accordance with the provisions of 329 IAC 9-8-22 in an amount not to exceed the coverage limits specified above.

In the event that the IDEM commissioner determines that [owner or operator] has failed to perform corrective action for releases arising out of the operation of the above-identified tank(s) in accordance with 329 IAC 9-5, the guarantor, upon written instructions from the IDEM commissioner, shall fund a standby trust in accordance with the provisions of 329 IAC 9-8-22 in an amount not to exceed the coverage limits specified above.

If [owner or operator] fails to satisfy a judgment or award based on a determination of liability for bodily injury or property damage to third parties caused by [insert "sudden" or "nonsudden" or both of those phrases] accidental releases arising from the operation of the above-identified tank(s), or fails to pay an amount agreed to in settlement of a claim arising from or alleged to arise from

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such injury or damage, the guarantor, upon written instructions from the IDEM commissioner, shall fund a standby trust in accordance with the provisions of 329 IAC 9-8-22 to satisfy such judgment(s), award(s), or settlement agreement(s) up to the limits of coverage specified above.

4. Guarantor agrees that if, at the end of any fiscal year before cancellation of this guarantee, the guarantor fails to meet the financial test criteria of 329 IAC 9-8-6(b) or 329 IAC 9-8-6(c) and 329 IAC 9-8-6(d), guarantor shall send within 120 days of such failure, by certified mail, notice to [owner or operator]. The guarantee will terminate 120 days from the date of receipt of the notice by [owner or operator] as evidenced by the return receipt.

5. Guarantor agrees to notify [owner or operator] by certified mail of a voluntary or involuntary proceeding under the bankruptcy laws of the United States (11 U.S.C. 101 et seq.), naming guarantor as debtor, within 10 days after commencement of the proceeding.

6. Guarantor agrees to remain bound under this guarantee notwithstanding any modification or alteration of any obligation of [owner or operator] pursuant to 329 IAC 9.

7. Guarantor agrees to remain bound under this guarantee for so long as [owner or operator] must comply with the applicable financial responsibility requirements of 329 IAC 9-8 for the above-identified tank(s), except that guarantor may cancel this guarantee by sending notice by certified mail to [owner or operator], such cancellation to become effective no earlier than 120 days after receipt of such notice by [owner or operator] as evidenced by the return receipt.

8. The guarantor's obligation does not apply to any of the following:

(a) Any obligation of [owner or operator] under a workers' compensation, disability benefits, or unemployment compensation law or other similar law.

(b) Bodily injury to an employee of [owner or operator] arising from, and in the course of, employment by [owner or operator].

(c) Bodily injury or property damage arising from the ownership, maintenance, use, or entrustment to others of any aircraft, motor vehicle, or watercraft.

(d) Property damage to any property owned, rented, loaned to, in the care, custody, or control of, or occupied by [owner or operator] that is not the direct result of a release from a petroleum underground storage tank.

(e) Bodily injury or property damage for which [owner or operator] is obligated to pay damages by reason of the assumption of liability in a contract or agreement other than a contract or agreement entered into to meet the requirements of 329 IAC 9-8-4.

9. Guarantor expressly waives notice of acceptance of this guarantee by IDEM, by any or all third parties, or by [owner or operator]. I hereby certify that the wording of this guarantee is identical to the wording specified in 329 IAC 9-8-7(c) as such regulations were constituted on the effective date shown immediately below.

Effective date:

[Name of guarantor]

[Authorized signature for guarantor]

[Name of person signing]

[Title of person signing]

Signature of witness or notary:

(d) An owner or operator who uses a guarantee to satisfy section 4 of this rule shall establish a standby trust fund when the guarantee is obtained. Under the terms of the guarantee, all amounts that are paid by the guarantor under the guarantee must be deposited directly into the standby trust fund in accordance with instructions from the commissioner under section 22 of this rule. This standby trust fund must meet the requirements specified in section 13 of this rule. (*Solid Waste Management Division; 329 IAC 9-8-7; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3734; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-8-8 Insurance and risk retention group coverage

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23-4-1; IC 13-23-4-2

Sec. 8. (a) An owner or operator may satisfy the requirements of section 4 of this rule by obtaining liability insurance that conforms to this section from a qualified insurer or risk retention group. Such insurance may be in the form of a separate insurance

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policy or an endorsement to an existing insurance policy.

(b) Each insurance policy must be amended by an endorsement worded as specified in subdivision (1) or evidenced by a certificate of insurance worded as specified in subdivision (2), except that instructions in brackets must be replaced with the relevant information and the brackets deleted:

(1) Endorsement

Name: [insert name of each covered location]

Address: [insert address of each covered location]

Policy Number:

Period of Coverage: [current policy period]

Name of [Insurer or Risk Retention Group]:

Address of [Insurer or Risk Retention Group]:

Name of Insured:

Address of Insured:

Endorsement

1. This endorsement certifies that the policy to which the endorsement is attached provides liability insurance covering the following underground storage tanks:

[List the number of tanks at each facility and the name(s) and address(es) of the facility(ies) where the tanks are located. If more than one instrument is used to assure different tanks at any one facility, for each tank covered by this instrument, list the tank identification number provided in the notification submitted pursuant to 329 IAC 9-2-2, and the name and address of the facility.]

For [insert "taking corrective action" or "compensating third parties for bodily injury and property damage caused by" or "taking corrective action and compensating third parties for bodily injury and property damage caused by" either "sudden accidental releases" or "nonsudden accidental releases" or "accidental releases"; in accordance with and subject to the limits of liability, exclusions, conditions, and other terms of the policy; if coverage is different for different tanks or locations, indicate the type of coverage applicable to each tank or location] arising from operating the underground storage tank(s) identified above.

The limits of liability are [insert the dollar amount of the "each occurrence" and "annual aggregate" limits of the Insurer's or Group's liability; if the amount of coverage is different for different types of coverage or for different underground storage tanks or locations, indicate the amount of coverage for each type of coverage, or for each underground storage tank or location, or for each type of coverage and for each underground storage tank or location], exclusive of legal defense costs, which are subject to a separate limit under the policy. This coverage is provided under [policy number]. The effective date of said policy is [date].

2. The insurance afforded with respect to such occurrences is subject to all of the terms and conditions of the policy; provided, however, that any provisions inconsistent with subsections (a) through (e) of this paragraph 2 are hereby amended to conform with subsections (a) through (e).

a. Bankruptcy or insolvency of the Insured shall not relieve the ["Insurer" or "Group"] of its obligations under the policy to which this endorsement is attached.

b. The ["Insurer" or "Group"] is liable for the payment of amounts within any deductible applicable to the policy to the provider of corrective action or a damaged third party, with a right of reimbursement by the Insured for any such payment made by the ["Insurer" or "Group"]. This provision does not apply with respect to that amount of any deductible for which coverage is demonstrated under another mechanism or combination of mechanisms as specified in 329 IAC 9-8-6 through 329 IAC 9-8-12.

c. Whenever requested by the Indiana Department of Environmental Management (IDEM) commissioner, the ["Insurer" or "Group"] agrees to furnish to the IDEM commissioner a signed duplicate original of the policy and all endorsements.

d. Cancellation or any other termination of the insurance by the ["Insurer" or "Group"], except for nonpayment of premium or misrepresentation by the Insured, will be effective only upon written notice and only after the expiration of sixty (60) days after a copy of such written notice is received by the Insured. Cancellation for nonpayment of premium or misrepresentation by the Insured will be effective only upon written notice and only after expiration of a minimum of ten (10) days after a copy of such written notice is received by the Insured.

[Insert for claims-made policies:

e. The insurance covers claims otherwise covered by the policy that are reported to the ["Insurer" or "Group"] within six (6) months of the effective date of cancellation or nonrenewal of the policy except where the new or renewed policy has the same

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retroactive date or a retroactive date earlier than that of the prior policy, and which arise out of any covered occurrence that commenced after the policy retroactive date, if applicable, and prior to such policy renewal or termination date. Claims reported during such extended reporting period are subject to the terms, conditions, limits, including limits of liability, and exclusions of the policy.]

I hereby certify that the wording of this instrument is identical to the wording in 329 IAC 9-8-8(b)(1) and that the ["Insurer" or "Group"] is [insert "licensed to transact the business of insurance or eligible to provide insurance as an excess or surplus lines insurer in one or more states"].

[Signature of authorized representative of Insurer or Risk Retention Group]

[Name of person signing]

[Title of person signing], Authorized Representative of [name of Insurer or Risk Retention Group]

[Address of representative]

(2) Certificate of Insurance

Name: [insert name of each covered location]

Address: [insert address of each covered location]

Policy Number:

Endorsement (if applicable):

Period of Coverage: [current policy period]

Name of [Insurer or Risk Retention Group]:

Address of [Insurer or Risk Retention Group]:

Name of Insured:

Address of Insured:

Certification

1. [Insert name of Insurer or Risk Retention Group], [the "Insurer" or "Group"], as identified above, hereby certifies that it has issued liability insurance covering the following underground storage tank(s):

[List the number of tanks at each facility and the name(s) and address(es) of the facility(ies) where the tanks are located. If more than one instrument is used to assure different tanks at any one facility, for each tank covered by this instrument, list the tank identification number provided in the notification submitted pursuant to 329 IAC 9-2-2, and the name and address of the facility.]

For [insert "taking corrective action" or "compensating third parties for bodily injury and property damage caused by" or "taking corrective action and compensating third parties for bodily injury and property damage caused by" either "sudden accidental releases" or "nonsudden accidental releases" or "accidental releases"; in accordance with and subject to the limits of liability, exclusions, conditions, and other terms of the policy; if coverage is different for different tanks or locations, indicate the type of coverage applicable to each tank or location] arising from operating the underground storage tank(s) identified above.

The limits of liability are [insert the dollar amount of the "each occurrence" and "annual aggregate" limits of the Insurer's or Group's liability; if the amount of coverage is different for different types of coverage or for different underground storage tanks or locations, indicate the amount of coverage for each type of coverage, or for each underground storage tank or location, or for each type of coverage and for each underground storage tank or location], exclusive of legal defense costs, which are subject to a separate limit under the policy. This coverage is provided under [policy number]. The effective date of said policy is [date].

2. The ["Insurer" or "Group"] further certifies the following with respect to the insurance described in paragraph 1:

a. Bankruptcy or insolvency of the Insured shall not relieve the ["Insurer" or "Group"] of its obligations under the policy to which this certificate applies.

b. The ["Insurer" or "Group"] is liable for the payment of amounts within any deductible applicable to the policy to the provider of corrective action or a damaged third party, with a right of reimbursement by the Insured for any such payment made by the ["Insurer" or "Group"]. This provision does not apply with respect to that amount of any deductible for which coverage is demonstrated under another mechanism or combination of mechanisms as specified in 329 IAC 9-8-6 through 329 IAC 9-8-12.

c. Whenever requested by the Indiana Department of Environmental Management (IDEM) commissioner, the ["Insurer" or "Group"] agrees to furnish to the IDEM commissioner a signed duplicate original of the policy and all endorsements.

d. Cancellation or any other termination of the insurance by the ["Insurer" or "Group"], except for nonpayment of premium or misrepresentation by the Insured, will be effective only upon written notice and only after the expiration of sixty (60) days

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after a copy of such written notice is received by the Insured. Cancellation for nonpayment of premium or misrepresentation by the Insured will be effective only upon written notice and only after expiration of a minimum of ten (10) days after a copy of such written notice is received by the Insured.

[Insert for claims-made policies:

e. The insurance covers claims otherwise covered by the policy that are reported to the ["Insurer" or "Group"] within six (6) months of the effective date of cancellation or nonrenewal of the policy except where the new or renewed policy has the same retroactive date or a retroactive date earlier than that of the prior policy, and which arise out of any covered occurrence that commenced after the policy retroactive date, if applicable, and prior to such policy renewal or termination date. Claims reported during such extended reporting period are subject to the terms, conditions, limits, including limits of liability, and exclusions of the policy.]

I hereby certify that the wording of this instrument is identical to the wording in 329 IAC 9-8-8(b)(2) and that the ["Insurer" or "Group"] is [insert "licensed to transact the business of insurance, or eligible to provide insurance as an excess or surplus lines insurer, in one or more states"].

[Signature of authorized representative of Insurer]

[Type name]

[Title], Authorized Representative of [name of Insurer or Risk Retention Group]

[Address of representative]

(c) Each insurance policy must be issued by an Insurer or a Risk Retention Group that, at a minimum, is licensed to transact the business of insurance or eligible to provide insurance as an excess or surplus lines insurer in one (1) or more states. (*Solid Waste Management Division; 329 IAC 9-8-8; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3736; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-8-9 Surety bond

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23-4-1; IC 13-23-4-2

Sec. 9. (a) An owner or operator may satisfy the requirements of section 4 of this rule by obtaining a surety bond that conforms to this section. The surety company issuing the bond must be among those listed as acceptable sureties on federal bonds by the United States department of the treasury in the most current edition of Circular 570.

(b) The surety bond must be worded as follows, except that instructions in brackets must be replaced with the relevant information and the brackets deleted:

Performance Bond

Date bond executed:

Period of coverage:

Principal: [insert legal name and business address of owner or operator]

Type of organization: [insert "individual", "joint venture", "partnership", or "corporation"]

State of incorporation (if applicable):

Surety(ies): [insert name(s) and business address(es)]

Scope of Coverage: [List the number of tanks at each facility and the name(s) and address(es) of the facility(ies) where the tanks are located. If more than one (1) instrument is used to assure different tanks at any one (1) facility, for each tank covered by this instrument, list the tank identification number provided in the notification submitted pursuant to 329 IAC 9-2-2, and the name and address of the facility. List the coverage guaranteed by the bond: "taking corrective action" or "compensating third parties for bodily injury and property damage caused by" or "taking corrective action and compensating third parties for bodily injury and property damage caused by" either "sudden accidental releases" or "nonsudden accidental releases" or "accidental releases" "arising from operating the underground storage tank."]

Penal sums of bond:

Per occurrence \$ _____

Annual aggregate \$ _____

Surety's bond number:

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Know All Persons by These Presents, that we, the Principal and Surety(ies), hereto are firmly bound to the Indiana Department of Environmental Management (IDEM), in the above penal sums for the payment of which we bind ourselves, our heirs, executors, administrators, successors, and assigns jointly and severally; provided that, where the Surety(ies) are corporations acting as co-sureties, we, the Sureties, bind ourselves in such sums jointly and severally only for the purpose of allowing a joint action or actions against any or all of us, and for all other purposes each Surety binds itself, jointly and severally with the Principal, for the payment of such sums only as is set forth opposite the name of such Surety, but if no limit of liability is indicated, the limit of liability shall be the full amount of the penal sums.

Whereas said Principal is required under Subtitle I of the Resource Conservation and Recovery Act (RCRA) of 1976, as amended by the Hazardous and Solid Waste Amendments (HSWA) of 1984 and the Superfund Amendments and Reauthorization Act (SARA) of 1986, to provide financial assurance for [insert "taking corrective action" or "compensating third parties for bodily injury and property damage caused by" or "taking corrective action and compensating third parties for bodily injury and property damage caused by" either "sudden accidental releases" or "nonsudden accidental releases" or "accidental releases"; if coverage is different for different tanks or locations, indicate the type of coverage applicable to each tank or location] arising from operating the underground storage tanks identified above, and

Whereas said Principal shall establish a standby trust fund as is required when a surety bond is used to provide such financial assurance;

Now, therefore, the conditions of the obligation are such that if the Principal shall faithfully [insert "take corrective action, in accordance with 329 IAC 9-5 and the IDEM commissioner's instructions, caused by" or "compensate injured third parties for bodily injury and property damage caused by" or "take corrective action, in accordance with 329 IAC 9-5 and the IDEM commissioner's instructions, and compensate injured third parties for bodily injury and property damage caused by" either "sudden" or "nonsudden" or "sudden and nonsudden"] accidental releases arising from operating the tank(s) identified above, or if the Principal shall provide alternate financial assurance, as specified in 329 IAC 9-8, within one hundred twenty (120) days after the date the notice of cancellation is received by the Principal from the Surety(ies), then this obligation shall be null and void; otherwise it is to remain in full force and effect.

Such obligation does not apply to any of the following:

- (a) Any obligation of [owner or operator] under a workers' compensation, disability benefits, or unemployment compensation law or other similar law.
- (b) Bodily injury to an employee of [owner or operator] arising from, and in the course of, employment by [owner or operator].
- (c) Bodily injury or property damage arising from the ownership, maintenance, use, or entrustment to others of any aircraft, motor vehicle, or watercraft.
- (d) Property damage to any property owned, rented, loaned to, in the care, custody, or control of, or occupied by [owner or operator] that is not the direct result of a release from a petroleum underground storage tank.
- (e) Bodily injury or property damage for which [owner or operator] is obligated to pay damages by reason of the assumption of liability in a contract or agreement other than a contract or agreement entered into to meet the requirements of 329 IAC 9-8-4.

The Surety(ies) shall become liable on this bond obligation only when the Principal has failed to fulfill the conditions described above.

Upon notification by the IDEM commissioner that the Principal has failed to [insert "take corrective action, in accordance with 329 IAC 9-5 and the IDEM commissioner's instructions," or "compensate injured third parties" or "take corrective action, in accordance with 329 IAC 9-5 and the IDEM commissioner's instructions, and compensate injured third parties"] as guaranteed by this bond, the Surety(ies) shall either perform [insert "corrective action, in accordance with 329 IAC 9-5 and the IDEM commissioner's instructions," or "third party liability compensation" or "corrective action, in accordance with 329 IAC 9-5 and the IDEM commissioner's instructions, and third party liability compensation"] or place funds in an amount up to the annual aggregate penal sum into the standby trust fund as directed by the IDEM commissioner under 329 IAC 9-8-22.

Upon notification by the IDEM commissioner that the Principal has failed to provide alternate financial assurance within sixty (60) days after the date the notice of cancellation is received by the Principal from the Surety(ies) and that the IDEM commissioner has determined or suspects that a release has occurred, the Surety(ies) shall place funds in an amount not exceeding the annual aggregate penal sum into the standby trust fund as directed by the IDEM commissioner under 329 IAC 9-8-22.

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The Surety(ies) hereby waive(s) notification of amendments to applicable laws, statutes, rules, and regulations and agrees that no such amendment shall in any way alleviate its (their) obligation on this bond.

The liability of the Surety(ies) shall not be discharged by any payment or succession of payments hereunder, unless and until such payment or payments shall amount in the annual aggregate to the penal sum shown on the face of the bond, but in no event shall the obligation of the Surety(ies) hereunder exceed the amount of said annual aggregate penal sum.

The Surety(ies) may cancel the bond by sending notice of cancellation by certified mail to the Principal, provided, however, that cancellation shall not occur during the one hundred twenty (120) days beginning on the date of receipt of the notice of cancellation by the Principal as evidenced by the return receipt.

The Principal may terminate this bond by sending written notice to the Surety(ies).

In Witness Whereof, the Principal and Surety(ies) have executed this bond and have affixed their seals on the date set forth above. The persons whose signatures appear below hereby certify that they are authorized to execute this surety bond on behalf of the Principal and Surety(ies) and that the wording of this surety bond is identical to the wording specified in 329 IAC 9-8-9(b) as such regulations were constituted on the date this bond was executed.

Principal

[Signature(s)]

[Name(s)]

[Title(s)]

[Corporate seal]

Corporate Surety(ies)

[Name and address]

[State of Incorporation: _____]

[Liability limit: \$_____]

[Signature(s)]

[Name(s) and title(s)]

[Corporate seal]

[For every co-surety, provide signature(s), corporate seal, and other information in the same manner as for Surety above.]

Bond premium: \$_____

(Note: The corporate seal is not required by Indiana law.)

(c) Under the terms of the bond, the surety shall become liable on the bond obligation when the owner or operator fails to perform as guaranteed by the bond. In all cases, the surety's liability is limited to the per occurrence and annual aggregate penal sums.

(d) The owner or operator who uses a surety bond to satisfy the requirements of section 4 of this rule shall establish a standby trust fund when the surety bond is acquired. Under the terms of the bond, all amounts paid by the surety under the bond must be deposited directly into the standby trust fund in accordance with instructions from the commissioner under section 22 of this rule. This standby trust fund must meet the requirements specified in section 13 of this rule. (*Solid Waste Management Division; 329 IAC 9-8-9; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3738; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-8-10 Letter of credit

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23-4-1; IC 13-23-4-2

Sec. 10. (a) An owner or operator may satisfy the requirements of section 4 of this rule by obtaining an irrevocable standby letter of credit that conforms to this section. The issuing institution must be an entity:

(1) that has the authority to issue letters of credit in each state where used; and

(2) whose letter of credit operations are regulated and examined by a federal or state agency.

(b) The letter of credit must be worded as follows, except that instructions in brackets are to be replaced with the relevant information and the brackets deleted:

Irrevocable Standby Letter of Credit

[Insert name and address of issuing institution]

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[Insert name and business address of the commissioner of the Indiana Department of Environmental Management (IDEM)]

Dear Sir or Madam:

We hereby establish our Irrevocable Standby Letter of Credit No. ____ in your favor, at the request and for the account of [insert name of owner or operator] of [address] up to the aggregate amount of [insert in words] U.S. dollars (\$ [insert dollar amount]), available upon presentation [insert, if more than one (1) director of a state implementing agency is a beneficiary, "by any one of you"] of:

1. your sight draft, bearing reference to this letter of credit, No. ____; and
2. your signed statement reading as follows: "I certify that the amount of the draft is payable pursuant to regulations issued under authority of Subtitle I of the Resource Conservation and Recovery Act (RCRA) of 1976, as amended by the Hazardous and Solid Waste Amendments (HSWA) of 1984 and the Superfund Amendments and Reauthorization Act (SARA) of 1986."

This letter of credit may be drawn on to cover [insert "taking corrective action" or "compensating third parties for bodily injury and property damage caused by" or "taking corrective action and compensating third parties for bodily injury and property damage caused by" either "sudden accidental releases" or "nonsudden accidental releases" or "accidental releases"] arising from operating the underground storage tank(s) identified below in the amount of [insert in words] (\$ [insert dollar amount]) per occurrence and [insert in words] (\$ [insert dollar amount]) annual aggregate:

[List the number of tanks at each facility and the name(s) and address(es) of the facility(ies) where the tanks are located. If more than one (1) instrument is used to assure different tanks at any one (1) facility, for each tank covered by this instrument, list the tank identification number provided in the notification submitted pursuant to 329 IAC 9-2-2, and the name and address of the facility.]

The letter of credit may not be drawn on to cover any of the following:

- a. Any obligation of [owner or operator] under a workers' compensation, disability benefits, or unemployment compensation law or other similar law.
- b. Bodily injury to an employee of [owner or operator] arising from, and in the course of, employment by [owner or operator].
- c. Bodily injury or property damage arising from the ownership, maintenance, use, or entrustment to others of any aircraft, motor vehicle, or watercraft.
- d. Property damage to any property owned, rented, loaned to, in the care, custody, or control of, or occupied by [owner or operator] that is not the direct result of a release from a petroleum underground storage tank.
- e. Bodily injury or property damage for which [owner or operator] is obligated to pay damages by reason of the assumption of liability in a contract or agreement other than a contract or agreement entered into to meet the requirements of 329 IAC 9-8-4.

This letter of credit is effective as of [date] and shall expire on [date], but such expiration date shall be automatically extended for a period of [at least the length of the original term] on [expiration date] and on each successive expiration date, unless, at least one hundred twenty (120) days before the current expiration date, we notify [owner or operator] by certified mail that we have decided not to extend this letter of credit beyond the current expiration date. In the event that [owner or operator] is so notified, any unused portion of the credit shall be available upon presentation of your sight draft for one hundred twenty (120) days after the date of receipt by [owner or operator] as shown on the signed return receipt.

Whenever this letter of credit is drawn on under and in compliance with the terms of this credit, we shall duly honor such draft upon presentation to us, and we shall deposit the amount of the draft directly into the standby trust fund of [owner or operator] in accordance with your instructions.

We certify that the wording of this letter of credit is identical to the wording specified in 329 IAC 9-8-10(b) as such regulations were constituted on the date shown immediately below.

[Signature(s) and title(s) of official(s) of issuing institution]

[Date]

This credit is subject to [insert "the most recent edition of the Uniform Customs and Practice for Documentary Credits, published and copyrighted by the International Chamber of Commerce" or "the Uniform Commercial Code, as adopted under state law governing the issuance and use of this letter of credit"].

(c) An owner or operator who uses a letter of credit to satisfy the requirements of section 4 of this rule also shall establish a standby trust fund when the letter of credit is acquired. Under the terms of the letter of credit, all amounts that are paid pursuant to a draft by the commissioner must be deposited by the issuing institution directly into the standby trust fund in accordance with

instructions from the commissioner under section 22 of this rule. This standby trust fund must meet the requirements specified in section 13 of this rule.

(d) The letter of credit must be irrevocable with a term specified by the issuing institution. The letter of credit must provide that credit be automatically renewed for the same term as the original term, unless, at least one hundred twenty (120) days before the current expiration date, the issuing institution notifies the owner or operator by certified mail of its decision not to renew the letter of credit. Under the terms of the letter of credit, the one hundred twenty (120) days begins on the date when the owner or operator receives the notice as evidenced by the return receipt. (*Solid Waste Management Division; 329 IAC 9-8-10; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3740; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-8-11 Excess liability trust fund

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23-4-1; IC 13-23-4-2; IC 13-23-8-3

Sec. 11. (a) An owner or operator may satisfy the requirements of section 4 of this rule by participation in the excess liability trust fund under 328 IAC 1. Eligibility is determined by compliance with 328 IAC 1.

(b) An owner or operator of:

(1) twelve (12) or fewer underground storage tanks shall demonstrate the ability to pay the applicable deductible amount under IC 13-23-8-3; or

(2) more than twelve (12) underground storage tanks shall demonstrate the ability to pay two (2) times the applicable deductible amount under IC 13-23-8-3.

(c) The owner or operator shall use any one (1) or a combination of the following mechanisms to demonstrate the ability to pay the applicable amount under subsection (b):

(1) An owner or operator may satisfy the requirements of subsection (b) by obtaining a letter signed by an officer of a federally insured financial institution that verifies the financial institution's commitment to issue a loan to the owner or operator, if necessary, to pay the applicable amount under subsection (b). This letter must be reviewed and updated annually by the financial institution.

(2) An owner or operator may satisfy the requirements of subsection (b) by obtaining a certificate of deposit from a federally insured financial institution.

(3) An owner or operator may satisfy the requirements of subsection (b) by obtaining a letter signed by an independent certified public accountant or independent professional accountant that verifies the tangible net worth of the owner or operator is sufficient to pay the applicable amount under subsection (b). This letter must be reviewed and updated annually by the certified public accountant or professional accountant.

(4) An owner or operator may satisfy the requirements of subsection (b) by obtaining liability insurance from an insurer or risk retention group.

(5) An owner or operator may satisfy the requirements of subsection (b) by obtaining a surety bond.

(6) An owner or operator may satisfy the requirements of subsection (b) by obtaining an irrevocable standby letter of credit issued by a federally insured financial institution.

(7) An owner or operator may satisfy the requirements of subsection (b) by establishing a trust fund.

(8) An owner or operator may satisfy the requirements of subsection (b) by obtaining a written guarantee from a person other than the owner or operator that verifies the guarantor's ability to pay the applicable amount under subsection (b). The written guarantee must disclose the relationship between the guarantor, and the owner or operator. The guarantor shall use one (1) or more of the mechanisms under this subsection.

(d) In addition to subsection (c), local government owners or operators may use any one (1) or a combination of the following mechanisms:

(1) A local government owner or operator may satisfy the requirements of subsection (b) by meeting a bond rating test under section 14 of this rule. The local government owner or operator shall list the amount under subsection (b) for the "per occurrence" and "annual aggregate" amounts in the letter from the chief financial officer.

(2) A local government owner or operator may satisfy the requirements of subsection (b) by passing the financial test specified in section 15 of this rule. The local government owner or operator shall list the amount under subsection (b) for

the "per occurrence" and "annual aggregate" amounts in the letter from the chief financial officer.

(3) A local government owner or operator may satisfy the requirements of subsection (b) by obtaining a guarantee that conforms to section 16 of this rule. The local government owner or operator shall list the amount under subsection (b) for the "per occurrence" and "annual aggregate" amounts in the local government guarantee with standby trust made by a local government. The local government owner or operator shall list the amount under subsection (b) for the "per occurrence" and "annual aggregate" amounts in the local government guarantee without standby trust made by a local government.

(4) A local government owner or operator may satisfy the requirements of subsection (b) by establishing a dedicated fund account that conforms to section 17 of this rule. The local government owner or operator shall list the amount under subsection (b) for the "per occurrence" and "annual aggregate" amounts in the letter from the chief financial officer.

(Solid Waste Management Division; 329 IAC 9-8-11; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3741; errata filed Sep 10, 1999, 9:08 a.m.: 23 IR 26; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535)

329 IAC 9-8-12 Trust fund

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23-4-1; IC 13-23-4-2

Sec. 12. (a) An owner or operator may satisfy the requirements of section 4 of this rule by establishing a trust fund that conforms to this section. The trustee must be an entity:

- (1) that has the authority to act as a trustee; and
- (2) whose trust operations are regulated and examined by:

- (A) a federal agency; or
- (B) an agency of the state in which the fund is established.

(b) The wording of the trust agreement must be:

- (1) identical to the wording specified in section 13(b) of this rule; or
- (2) accompanied by a formal certification of acknowledgment as specified in section 13(c) and 13(d) of this rule.

(c) The trust fund, when established, must be funded for:

- (1) the full required amount of coverage; or
- (2) part of the required amount of coverage and used in combination with another mechanism that provides the remaining required coverage.

(d) If the value of the trust fund is greater than the required amount of coverage, the owner or operator may submit a written request to the commissioner for release of the excess.

(e) If other financial assurance as specified in this rule is substituted for all or part of the trust fund, the owner or operator may submit a written request to the commissioner for release of the excess.

(f) Within sixty (60) days after receiving a request from the owner or operator for release of funds as specified in subsection (d) or (e), the commissioner shall instruct the trustee to release to the owner or operator such funds as the commissioner specifies in writing. *(Solid Waste Management Division; 329 IAC 9-8-12; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3742; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535)*

329 IAC 9-8-13 Standby trust fund

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23-4-1; IC 13-23-4-2

Sec. 13. (a) An owner or operator that uses any one (1) of the mechanisms authorized by section 7, 9, 10, 11(c)(2), or 11(c)(7) of this rule shall establish a standby trust fund when the mechanism is acquired. The trustee of the standby trust fund must be an entity:

- (1) that has the authority to act as a trustee; and
- (2) whose trust operations are regulated and examined by:
 - (A) a federal agency; or
 - (B) an agency of the state in which the fund is established.

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(b) The standby trust agreement, or trust agreement, must be worded as follows, except that instructions in brackets are to be replaced with the relevant information and the brackets deleted:

Trust Agreement

Trust agreement, the "Agreement", entered into as of [date] by and between [insert name of the owner or operator], a [insert name of state] [insert "corporation", "partnership", "association", or "proprietorship"], the "Grantor", and [insert name of corporate trustee], [insert "Incorporated in the state of ____" or "a national bank"], the "Trustee".

Whereas, the Indiana Department of Environmental Management (IDEM), an agency of Indiana, has established certain regulations applicable to the Grantor, requiring that an owner or operator of an underground storage tank shall provide assurance that funds will be available when needed for corrective action and third party compensation for bodily injury and property damage caused by sudden and nonsudden accidental releases arising from the operation of the underground storage tank. The attached Schedule A lists the number of tanks at each facility and the name(s) and address(es) of the facility(ies) where the tanks are located that are covered by the Agreement.

[Whereas, the Grantor has elected to establish a [insert either "guarantee" or "surety bond" or "letter of credit" or "certificate of deposit"] to provide all or part of such financial assurance for the underground storage tanks identified herein and is required to establish a standby trust fund able to accept payments from the instrument (This paragraph is only applicable to the standby trust agreement.);];

Whereas, the Grantor, acting through its duly authorized officers, has selected the Trustee to be the trustee under this Agreement, and the Trustee is willing to act as trustee;

Now, therefore, the Grantor and the Trustee agree as follows:

Section 1. Definitions

As used in this Agreement:

- a. The term "Grantor" means the owner or operator who enters into this Agreement and any successors or assigns of the Grantor.
- b. The term "Trustee" means the Trustee who enters into this Agreement and any successor Trustee.

Section 2. Identification of the Financial Assurance Mechanism

This Agreement pertains to the [identify the financial assurance mechanism, either a guarantee, surety bond, letter of credit, or certificate of deposit, from which the standby trust fund is established to receive payments (This paragraph is only applicable to the standby trust agreement.)].

Section 3. Establishment of Fund

The Grantor and the Trustee hereby establish a trust fund, the "Fund", for the benefit of IDEM. The Grantor and the Trustee intend that no third party have access to the Fund except as herein provided. [The Fund is established initially as a standby to receive payments and shall not consist of any property.] Payments made by the provider of financial assurance pursuant to the IDEM commissioner's instruction are transferred to the Trustee and are referred to as the Fund, together with all earnings and profits therein, less any payments or distributions made by the Trustee pursuant to this Agreement. The Fund shall be held by the Trustee, IN TRUST, as hereinafter provided. The Trustee shall not be responsible nor shall it undertake any responsibility for the amount or adequacy of, nor any duty to collect from the Grantor as provider of financial assurance, any payments necessary to discharge any liability of the Grantor established by IDEM.

Section 4. Payment for [insert "Corrective Action" or "Third Party Liability Claims" or "Corrective Action and Third Party Liability Claims"]

The Trustee shall make payments from the Fund as the IDEM commissioner shall direct, in writing, to provide for the payment of the costs of [insert "taking corrective action" or "compensating third parties for bodily injury and property damage caused by" or "taking corrective action and compensating third parties for bodily injury and property damage caused by" either "sudden accidental releases" or "nonsudden accidental releases" or "accidental releases"] arising from operating the tanks covered by the financial assurance mechanism identified in this Agreement.

The Fund may not be drawn upon to cover any of the following:

- a. Any obligation of [owner or operator] under a workers' compensation, disability benefits, or unemployment compensation law or other similar law.

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- b. Bodily injury to an employee of [owner or operator] arising from, and in the course of, employment by [owner or operator].
- c. Bodily injury or property damage arising from the ownership, maintenance, use, or entrustment to others of any aircraft, motor vehicle, or watercraft.
- d. Property damage to any property owned, rented, loaned to, in the care, custody, or control of, or occupied by [owner or operator] that is not the direct result of a release from a petroleum underground storage tank.
- e. Bodily injury or property damage for which [owner or operator] is obligated to pay damages by reason of the assumption of liability in a contract or agreement other than a contract or agreement entered into to meet the requirements of 329 IAC 9-8-4.

The Trustee shall reimburse the Grantor, or other persons as specified by the IDEM commissioner, from the Fund for corrective action expenditures or third party liability claims or both in such amounts as the IDEM commissioner shall direct in writing. In addition, the Trustee shall refund to the Grantor such amounts as the IDEM commissioner specifies in writing. Upon refund, such funds shall no longer constitute part of the Fund as defined herein.

Section 5. Payments Comprising the Fund

Payments made to the Trustee for the Fund shall consist of cash and securities acceptable to the Trustee.

Section 6. Trustee Management

The Trustee shall invest and reinvest the principal and income of the Fund and keep the Fund invested as a single fund, without distinction between principal and income, in accordance with general investment policies and guidelines which the Grantor may communicate in writing to the Trustee from time to time, subject, however, to the provisions of this section. In investing, reinvesting, exchanging, selling, and managing the Fund, the Trustee shall discharge his or her duties with respect to the trust fund solely in the interest of the beneficiaries and with the care, skill, prudence, and diligence under the circumstances then prevailing which persons of prudence, acting in a like capacity and familiar with such matters, would use in the conduct of an enterprise of a like character and with like aims; except that:

- a. securities or other obligations of the Grantor, or any other owner or operator of the tanks, or any of their affiliates as defined in the Investment Company Act of 1940, as amended, 15 U.S.C. 80a-2(a), shall not be acquired or held unless they are securities or other obligations of the federal or a state government;
- b. the Trustee is authorized to invest the Fund in time or demand deposits of the Trustee, to the extent insured by an agency of the federal or state government; and
- c. the Trustee is authorized to hold cash awaiting investment or distribution uninvested for a reasonable time and without liability for the payment of interest therein.

Section 7. Commingling and Investment

The Trustee is expressly authorized in its discretion:

- a. to transfer from time to time any or all of the assets of the Fund to any common, commingled, or collective trust fund created by the Trustee in which the Fund is eligible to participate, subject to all of the provisions thereof, to be commingled with the assets of other trusts participating therein; and
- b. to purchase shares in any investment company registered under the Investment Company Act of 1940, 15 U.S.C. 80a-1 et seq., including one which may be created, managed, underwritten, or to which investment advice is rendered or the shares of which are sold by the Trustee. The Trustee may vote such shares in its discretion.

Section 8. Express Powers of Trustee

Without in any way limiting the powers and discretions conferred upon the Trustee by the other provisions of this Agreement or by law, the Trustee is expressly authorized and empowered:

- a. to sell, exchange, convey, transfer, or otherwise dispose of any property held by it by public or private sale. No person dealing with the Trustee shall be bound to see to the application of the purchase money or to inquire into the validity or expediency of any such sale or other disposition;
- b. to make, execute, acknowledge, and deliver any and all documents of transfer and conveyance and any and all other instruments that may be necessary or appropriate to carry out the powers herein granted;
- c. to register any securities held in the Fund in its own name or in the name of a nominee and to hold any security in bearer form or in book entry, or to combine certificates representing such securities with certificates of the same issue held by the Trustee in other fiduciary capacities, or to deposit or arrange for the deposit of such securities in a qualified central depository even though, when so deposited, such securities may be merged and held in bulk in the name of the nominee of such

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depository with other securities deposited therein by another person, or to deposit or arrange for the deposit of any securities issued by the United States Government, or any agency or instrumentality thereof, with a Federal Reserve bank, but the books and records of the Trustee shall at all times show that all such securities are part of the Fund;

d. to deposit any cash in the Fund in interest bearing accounts maintained or savings certificates issued by the Trustee, in its separate corporate capacity, or in any other banking institution affiliated with the Trustee, to the extent insured by an agency of the federal or state government; and

e. to compromise or otherwise adjust all claims in favor of or against the Fund.

Section 9. Taxes and Expenses

All taxes of any kind that may be assessed or levied against or in respect of the Fund and all brokerage commissions incurred by the Fund shall be paid from the Fund. All other expenses incurred by the Trustee in connection with the administration of this Trust, including fees for legal services rendered to the Trustee, the compensation of the Trustee to the extent not paid directly by the Grantor, and all other proper charges and disbursements of the Trustee shall be paid from the Fund.

Section 10. Advice of Counsel

The Trustee may from time to time consult with counsel, who may be counsel to the Grantor, with respect to any questions arising as to the construction of this Agreement or any action to be taken hereunder. The Trustee shall be fully protected, to the extent permitted by law, in acting upon the advice of counsel.

Section 11. Trustee Compensation

The Trustee shall be entitled to reasonable compensation for its services as agreed upon in writing from time to time with the Grantor.

Section 12. Successor Trustee

The Trustee may resign or the Grantor may replace the Trustee, but such resignation or replacement shall not be effective until the Grantor has appointed a successor trustee and this successor accepts the appointment. The successor trustee shall have the same powers and duties as those conferred upon the Trustee hereunder. Upon the successor trustee's acceptance of the appointment, the Trustee shall assign, transfer, and pay over to the successor trustee the funds and properties then constituting the Fund. If for any reason the Grantor cannot or does not act in the event of the resignation of the Trustee, the Trustee may apply to a court of competent jurisdiction for the appointment of a successor trustee or for instructions. The successor trustee shall specify the date on which it assumes administration of the Trust in writing sent to the Grantor and the present Trustee by certified mail ten (10) days before such change becomes effective. Any expenses incurred by the Trustee as a result of any of the acts contemplated by this section shall be paid as provided in Section 9.

Section 13. Instructions to the Trustee

All orders, requests, and instructions by the Grantor to the Trustee shall be in writing, signed by such persons as are designated in the attached Schedule B or such other designees as the Grantor may designate by amendment to Schedule B. The Trustee shall be fully protected in acting without inquiry in accordance with the Grantor's orders, requests, and instructions. All orders, requests, and instructions by the IDEM commissioner to the Trustee shall be in writing, signed by the IDEM commissioner, and the Trustee shall act and shall be fully protected in acting in accordance with such orders, requests, and instructions. The Trustee shall have the right to assume, in the absence of written notice to the contrary, that no event constituting a change or a termination of the authority of any person to act on behalf of the Grantor or the IDEM commissioner hereunder has occurred. The Trustee shall have no duty to act in the absence of such orders, requests, and instructions from the Grantor or the IDEM commissioner or both, except as provided for herein.

Section 14. Amendment of Agreement

This Agreement may be amended by an instrument in writing executed by the Grantor and the Trustee, or by the Trustee and the IDEM commissioner if the Grantor ceases to exist.

Section 15. Irrevocability and Termination

Subject to the right of the parties to amend this Agreement as provided in Section 14, this Trust shall be irrevocable and shall continue until terminated at the written direction of the Grantor and the Trustee, or by the Trustee and the IDEM commissioner if the Grantor ceases to exist. Upon termination of the Trust, all remaining trust property, less final trust administration expenses, shall be delivered to the Grantor.

Section 16. Immunity and Indemnification

The Trustee shall not incur personal liability of any nature in connection with any act or omission, made in good faith, in the

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administration of this Trust, or in carrying out any directions by the Grantor or the IDEM commissioner issued in accordance with this Agreement. The Trustee shall be indemnified and saved harmless by the Grantor, from and against any personal liability to which the Trustee may be subjected by reason of any act or conduct in its official capacity, including all expenses reasonably incurred in its defense in the event the Grantor fails to provide such defense.

Section 17. Choice of Law

This Agreement shall be administered, construed, and enforced according to the laws of the state of [insert name of state], or the Comptroller of the Currency in the case of National Association banks.

Section 18. Interpretation

As used in this Agreement, words in the singular include the plural and words in the plural include the singular. The descriptive headings for each section of this Agreement shall not affect the interpretation or the legal efficacy of this Agreement.

In Witness Whereof, the parties have caused this Agreement to be executed by their respective officers duly authorized and their corporate seals (if applicable) to be hereunto affixed and attested as of the date first above written. The parties below certify that the wording of this Agreement is identical to the wording specified in 329 IAC 9-8-13(b)(1) as such regulations were constituted on the date written above.

[Signature of Grantor]

[Name of the Grantor]

[Title]

Attest:

[Signature of Trustee]

[Name of the Trustee]

[Title]

[Seal]

[Signature of Witness]

[Name of the Witness]

[Title]

[Seal]

(Note: Corporate seal is not required by Indiana law.)

(c) The standby trust agreement, or trust agreement, must be accompanied by a formal certification of acknowledgment similar to the following:

Certification of Acknowledgment

State of _____

County of _____

On this [date], before me personally came [owner or operator] to me known, who, being by me duly sworn, did depose and say that she/he resides at [address], that she/he is [title] of [corporation], the corporation described in and which executed the above instrument; that she/he knows the seal of said corporation; that the seal affixed to such instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said corporation; and that she/he signed her/his name thereto by like order.

[Signature of Notary Public]

[Name of Notary Public]

(d) The following is an example of the Indiana form of acknowledgment. (Standby trust agreements, or trust agreements, notarized in Indiana must use this form of acknowledgment.):

Form of Indiana certification of acknowledgment.

ACKNOWLEDGMENT

State of _____

County of _____

Before me, the undersigned, a Notary Public in and for said County and State, personally appeared [owner or operator] to be known by me to be the person who [(only for corporate party)], as [insert title] of _____, Inc., the corporation that executed the foregoing instrument, signed the same and acknowledged to me that he/she did so sign the same [in the name and on behalf of the said corporation as such officer], and the same is his free act and deed [and the free corporate act and deed of said corporation, and that he/she was duly authorized by the Board of Directors of said corporation] and the statements made in the

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foregoing instrument are true.

IN WITNESS WHEREOF, I have set my hand and official seal this _____ day of _____, 199_.

State of: _____

County of residence: _____

Notary Public

Commission Expires: _____

(e) The commissioner shall instruct the trustee to refund the balance of the standby trust fund to the provider of financial assurance if the commissioner determines that no additional:

(1) corrective action costs; or

(2) third party liability claims;

will occur as a result of a release covered by the financial assurance mechanism for which the standby trust fund has been established. If the balance of the standby trust fund includes funds received from a certificate of deposit, the commissioner shall instruct the trustee to refund the balance received from the certificate of deposit to the owner or operator under section 11(c)(7)(I) of this rule.

(f) An owner or operator may establish one (1) trust fund as the depository mechanism for all funds assured in compliance with this rule. (*Solid Waste Management Division; 329 IAC 9-8-13; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3743; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535; errata filed Mar 17, 2005, 3:00 p.m.: 28 IR 2391*)

329 IAC 9-8-14 Local government bond rating test

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23-4-1; IC 13-23-4-2

Sec. 14. (a) A:

(1) general purpose local government owner or operator and general purpose local government serving as a guarantor;

(2) general purpose local government owner or operator; or

(3) general purpose local government serving as a guarantor;

may satisfy the requirements of section 4 of this rule by having a currently outstanding issue or issues of general obligation bonds of one million dollars (\$1,000,000) or more, excluding refunded obligations, with a Moody's rating of Aaa, Aa, A, or Baa, or a Standard & Poor's rating of AAA, AA, A, or BBB. Where a local government has multiple outstanding issues, or where a local government's bonds are rated by both Moody's and Standard & Poor's, the lowest rating must be used to determine eligibility. Bonds that are backed by credit enhancement, other than municipal bond insurance, must not be considered in determining the amount of applicable bonds outstanding.

(b) A local government owner or operator or local government serving as a guarantor that:

(1) is not a general purpose local government; and

(2) does not have the legal authority to issue general obligation bonds;

may satisfy the requirements of section 4 of this rule by having a currently outstanding issue or issues of revenue bonds of one million dollars (\$1,000,000) or more, excluding refunded issues, and having a Moody's rating of Aaa, Aa, A, or Baa, or a Standard & Poor's rating of AAA, AA, A, or BBB as the lowest rating for any rated revenue bond issued by the local government. Where bonds are rated by both Moody's and Standard & Poor's, the lower rating for each bond must be used to determine eligibility. Bonds that are backed by credit enhancement must not be considered in determining the amount of applicable bonds outstanding.

(c) The:

(1) local government owner or operator and local government guarantor;

(2) local government owner or operator; or

(3) local government guarantor;

shall maintain a copy of its bond rating published within the last twelve (12) months by Moody's or Standard & Poor's.

(d) To demonstrate that it meets the local government bond rating test, the chief financial officer of a:

(1) general purpose local government owner or operator and general purpose local government serving as a guarantor;

(2) general purpose local government owner or operator; or

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(3) general purpose local government serving as a guarantor;
shall sign a letter worded exactly as follows, except that the instructions in brackets are to be replaced by the relevant information and the brackets deleted:

Letter from Chief Financial Officer

I am the chief financial officer of [insert name and address of local government owner or operator or guarantor]. This letter is in support of the use of the bond rating test to demonstrate financial responsibility for [insert "taking corrective action" or "compensating third parties for bodily injury and property damage" or both of those phrases] caused by [insert "sudden accidental releases" or "nonsudden accidental releases" or both of those phrases] in the amount of at least [insert dollar amount] per occurrence and [insert dollar amount] annual aggregate arising from operating (an) underground storage tank(s).

Underground storage tanks at the following facilities are assured by this bond rating test: [List for each facility the name and address of the facility where tanks are assured by the bond rating test.]

The details of the issue date, maturity, outstanding amount, bond rating, and bond rating agency of all outstanding bond issues that are being used by [insert name of local government owner or operator or guarantor] to demonstrate financial responsibility are as follows: [complete table]

Issue Date	Maturity Date	Outstanding Amount	Bond Rating	Rating Agency [Moody's or Standard & Poor's]
The total outstanding obligation of [insert amount], excluding refunded bond issues, exceeds the minimum amount of one million dollars (\$1,000,000). All outstanding general obligation bonds issued by this government that have been rated by Moody's or Standard & Poor's are rated as at least investment grade (Moody's Baa or Standard & Poor's BBB) based on the most recent ratings published within the last twelve (12) months. Neither rating service has provided notification within the last twelve (12) months of downgrading of bond ratings below investment grade or of withdrawal of bond rating other than for repayment of outstanding bond issues.				

I hereby certify that the wording of this letter is identical to the wording specified in 329 IAC 9-8-14(d) as such regulations were constituted on the date shown immediately below.

[Date]

[Signature]

[Name]

[Title]

(e) To demonstrate that it meets the local government bond rating test, the chief financial officer of a:

(1) local government owner or operator other than a general purpose government and guarantor other than a general purpose government;

(2) local government owner or operator other than a general purpose government; or

(3) guarantor other than a general purpose government;

shall sign a letter worded exactly as follows, except that the instructions in brackets are to be replaced by the relevant information and the brackets deleted:

Letter from Chief Financial Officer

I am the chief financial officer of [insert name and address of local government owner or operator or guarantor]. This letter is in support of the use of the bond rating test to demonstrate financial responsibility for [insert "taking corrective action" or "compensating third parties for bodily injury and property damage" or both of those phrases] caused by [insert "sudden accidental releases" or "nonsudden accidental releases" or both of those phrases] in the amount of at least [insert dollar amount] per occurrence and [insert dollar amount] annual aggregate arising from operating (an) underground storage tank(s). This local government is not organized to provide general governmental services and does not have the legal authority under state law or constitutional provisions to issue general obligation debt.

Underground storage tanks at the following facilities are assured by this bond rating test: [List for each facility the name and address of the facility where tanks are assured by the bond rating test.]

The details of the issue date, maturity, outstanding amount, bond rating, and bond rating agency of all outstanding revenue bond issues that are being used by [insert name of local government owner or operator or guarantor] to demonstrate financial responsibility are as follows: [complete table]

Issue Date	Maturity Date	Outstanding Amount	Bond Rating	Rating Agency [Moody's or Standard & Poor's]
The total outstanding obligation of [insert amount], excluding refunded bond issues, exceeds the minimum amount of one million				

dollars (\$1,000,000). All outstanding revenue bonds issued by this government that have been rated by Moody's or Standard & Poor's are rated as at least investment grade (Moody's Baa or Standard & Poor's BBB) based on the most recent ratings published within the last twelve (12) months. The revenue bonds listed are not backed by third party credit enhancement or are insured by a municipal bond insurance company. Neither rating service has provided notification within the last twelve (12) months of downgrading of bond ratings below investment grade or of withdrawal of bond rating other than for repayment of outstanding bond issues.

I hereby certify that the wording of this letter is identical to the wording specified in 329 IAC 9-8-14(e) as such regulations were constituted on the date shown immediately below.

[Date]

[Signature]

[Name]

[Title]

(f) The commissioner may require reports of financial condition at any time from the:

- (1) local government owner or operator and local government guarantor;
- (2) local government owner or operator; or
- (3) local government guarantor.

If the commissioner finds, on the basis of such reports or other information, that the local government owner or operator and local government guarantor, the local government owner or operator, or the local government guarantor no longer meets the local government bond rating test requirements of this section, the local government owner or operator shall obtain alternative coverage within thirty (30) days after notification of such a finding.

(g) If a local government owner or operator that uses the bond rating test to provide financial assurance finds that it no longer meets the bond rating test requirements, the local government owner or operator shall obtain alternative coverage within one hundred fifty (150) days of the change in status. (*Solid Waste Management Division; 329 IAC 9-8-14; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3747; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-8-15 Local government financial test

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23-4-1; IC 13-23-4-2

Sec. 15. (a) A local government owner or operator may satisfy the requirements of section 4 of this rule by passing the financial test specified in this section. To be eligible to use the financial test, the local government owner or operator shall have the ability and authority to:

- (1) assess and levy taxes; or
- (2) freely establish fees and charges.

To pass the local government financial test, the owner or operator shall meet the criteria of subsection (b)(2) and (b)(3) based on year end financial statements for the latest completed fiscal year.

(b) The local government owner or operator shall complete the following:

(1) The local government owner or operator shall have the following information available, as shown in the year end financial statements, for the latest completed fiscal year:

(A) Total revenues that consist of the sum of general fund operating and nonoperating revenues, including the following:

- (i) Net local taxes.
- (ii) Licenses and permits.
- (iii) Fines and forfeitures.
- (iv) Revenues from the use of money and property.
- (v) Charges for services.
- (vi) Investment earnings.
- (vii) Sales, that may include any of the following:
 - (AA) Property.

- (BB) Publications.
- (viii) Intergovernmental revenues (restricted and unrestricted).
- (ix) Total revenues from all other governmental funds, including:
 - (AA) enterprise;
 - (BB) debt service;
 - (CC) capital projects; and
 - (DD) special revenues;

but excluding revenues to funds held in a trust or agency capacity.

For purposes of this test, the calculation of total revenues must exclude all transfers between funds under the direct control of the local government using the financial test (interfund transfers), liquidation of investments, and issuance of debt.

(B) Total expenditures that consist of the sum of general fund operating and nonoperating expenditures, including the following:

- (i) Public safety.
- (ii) Public utilities.
- (iii) Transportation.
- (iv) Public works.
- (v) Environmental protection.
- (vi) Cultural and recreational.
- (vii) Community development.
- (viii) Revenue sharing.
- (ix) Employee benefits and compensation.
- (x) Office management.
- (xi) Planning and zoning.
- (xii) Capital projects.
- (xiii) Interest payments on debt.
- (xiv) Payments for retirement of debt principal.
- (xv) Total expenditures from all other governmental funds, including the following:
 - (AA) Enterprise.
 - (BB) Debt service.
 - (CC) Capital projects.
 - (DD) Special revenues.

For purposes of this test, the calculation of total expenditures must exclude all transfers between funds under the direct control of the local government using the financial test (interfund transfers).

(C) Local revenues that consist of total revenues, as defined in clause (A), minus the sum of all transfers from other governmental entities, including all monies received from any of the following:

- (i) Federal sources.
- (ii) State sources.
- (iii) Local government sources.

(D) Debt service that consists of the sum of all interest and principal payments on all long term credit obligations and all interest bearing short term credit obligations, including interest and principal payments on the following:

- (i) General obligation bonds.
- (ii) Revenue bonds.
- (iii) Notes.
- (iv) Mortgages.
- (v) Judgments.
- (vi) Interest bearing warrants.

Debt service excludes payments on noninterest bearing short term obligations, interfund obligations, amounts owed in a trust or agency capacity, and advances and contingent loans from other governments.

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(E) Total funds that consist of the sum of cash and investment securities from all funds, including general, enterprise, debt service, capital projects, and special revenue funds, but excluding employee retirement funds, at the end of the local government's financial reporting year. Total funds include the following:

- (i) Federal securities.
- (ii) Federal agency securities.
- (iii) State and local government securities.
- (iv) Other securities such as bonds, notes, and mortgages.

For purposes of this test, the calculation of total funds must exclude agency funds, private trust funds, accounts receivable, value of real property, and other nonsecurity assets.

(F) Population that consists of the number of people in the area served by the local government.

(2) The local government's year end financial statements, if independently audited, must not include an adverse auditor's opinion or a disclaimer of opinion. The local government shall not have outstanding issues of general obligation or revenue bonds that are rated as less than investment grade.

(3) The local government owner or operator shall have a letter signed by the chief financial officer worded as specified in subsection (c).

(c) To demonstrate that it meets the financial test under subsection (b), the chief financial officer of the local government owner or operator shall sign, within one hundred twenty (120) days of the close of each financial reporting year, as defined by the twelve (12) month period for which financial statements used to support the financial test are prepared, a letter worded exactly as follows, except that the instructions in brackets are to be replaced by the relevant information and the brackets deleted:

Letter from Chief Financial Officer

I am the chief financial officer of [insert name and address of the owner or operator]. This letter is in support of the use of the local government financial test to demonstrate financial responsibility for [insert "taking corrective action" or "compensating third parties for bodily injury and property damage" or both of those phrases] caused by [insert "sudden accidental releases" or "nonsudden accidental releases" or both of those phrases] in the amount of at least [insert dollar amount] per occurrence and [insert dollar amount] annual aggregate arising from operating (an) underground storage tank(s).

Underground storage tanks at the following facilities are assured by this financial test: [List for each facility the name and address of the facility where tanks assured by this financial test are located. If separate mechanisms or combinations of mechanisms are being used to assure any of the tanks at this facility, list each tank assured by this financial test by the tank identification number provided in the notification submitted pursuant to 329 IAC 9-2-2.]

This owner or operator has not received an adverse opinion or a disclaimer of opinion from an independent auditor on its financial statements for the latest completed fiscal year. Any outstanding issues of general obligation or revenue bonds, if rated, have a Moody's rating of Aaa, Aa, A, or Baa or a Standard & Poor's rating of AAA, AA, A, or BBB; if rated by both firms, the bonds have a Moody's rating of Aaa, Aa, A, or Baa and a Standard & Poor's rating of AAA, AA, A, or BBB.

Worksheet for Municipal Financial Test

Part I: Basic Information

1. Total revenues

a. Revenues (dollars) _____

Value of revenues excludes liquidation of investments and issuance of debt. Value includes all general fund operating and nonoperating revenues, as well as all revenues from all other governmental funds, including enterprise, debt service, capital projects, and special revenues, but excluding revenues to funds held in a trust or agency capacity.

b. Subtract interfund transfers (dollars) _____

c. Total revenues (dollars) _____

2. Total expenditures

a. Expenditures (dollars) _____

Value consists of the sum of general fund operating and nonoperating expenditures, including interest payments on debt, payments for retirement of debt principal, and total expenditures from all other governmental funds, including enterprise, debt service, capital projects, and special revenues.

b. Subtract interfund transfers (dollars) _____

c. Total expenditures (dollars) _____

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3. Local revenues

- a. Total revenues (from 1c) (dollars) _____
- b. Subtract total intergovernmental transfers (dollars) _____
- c. Local revenues (dollars) _____

4. Debt service

- a. Interest and fiscal charges (dollars) _____
- b. Add debt retirement (dollars) _____
- c. Total debt service (dollars) _____

5. Total funds (dollars) _____

(Sum of amounts held as cash and investment securities from all funds, excluding amounts held for employee retirement funds, agency funds, and trust funds.)

6. Population (persons) _____

Part II: Application of Test

7. Total revenues to population

- a. Total revenues (from 1c) _____
- b. Population (from 6) _____
- c. Divide 7a by 7b _____
- d. Subtract 417 _____
- e. Divide by 5,212 _____
- f. Multiply by 4.095 _____

8. Total expenses to population

- a. Total expenses (from 2c) _____
- b. Population (from 6) _____
- c. Divide 8a by 8b _____
- d. Subtract 524 _____
- e. Divide by 5,401 _____
- f. Multiply by 4.095 _____

9. Local revenues to total revenues

- a. Local revenues (from 3c) _____
- b. Total revenues (from 1c) _____
- c. Divide 9a by 9b _____
- d. Subtract .695 _____
- e. Divide by .205 _____
- f. Multiply by 2.840 _____

10. Debt service to population

- a. Debt service (from 4c) _____
- b. Population (from 6) _____
- c. Divide 10a by 10b _____
- d. Subtract 51 _____
- e. Divide by 1,038 _____
- f. Multiply by -1.866 _____

11. Debt service to total revenues

- a. Debt service (from 4c) _____
- b. Total revenues (from 1c) _____
- c. Divide 11a by 11b _____
- d. Subtract .068 _____
- e. Divide by .259 _____
- f. Multiply by -3.533 _____

12. Total revenues to total expenses

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- a. Total revenues (from 1c) _____
 - b. Total expenses (from 2c) _____
 - c. Divide 12a by 12b _____
 - d. Subtract .910 _____
 - e. Divide by .899 _____
 - f. Multiply by 3.458 _____
13. Funds balance to total revenues
- a. Total funds (from 5) _____
 - b. Total revenues (from 1c) _____
 - c. Divide 13a by 13b _____
 - d. Subtract .891 _____
 - e. Divide by 9.156 _____
 - f. Multiply by 3.270 _____
14. Funds balance to total expenses
- a. Total funds (from 5) _____
 - b. Total expenses (from 2c) _____
 - c. Divide 14a by 14b _____
 - d. Subtract .866 _____
 - e. Divide by 6.409 _____
 - f. Multiply by 3.270 _____
15. Total funds to population
- a. Total funds (from 5) _____
 - b. Population (from 6) _____
 - c. Divide 15a by 15b _____
 - d. Subtract 270 _____
 - e. Divide by 4,548 _____
 - f. Multiply by 1.866 _____
16. Add 7f + 8f + 9f + 10f + 11f + 12f + 13f + 14f + 15f + 4.937 _____

I hereby certify that the financial index shown on line 16 of the worksheet is greater than zero and that the wording of this letter is identical to the wording specified in 329 IAC 9-8-15(c) as such regulations were constituted on the date shown immediately below.

[Date]

[Signature]

[Name]

[Title]

(d) If a local government owner or operator that uses the test to provide financial assurance finds that it no longer meets the requirements of the financial test based on the year end financial statements, the owner or operator shall obtain alternative coverage within one hundred fifty (150) days of the end of the year for which financial statements have been prepared.

(e) The commissioner may require reports of financial condition at any time from the local government owner or operator. If the commissioner finds, on the basis of such reports or other information, that the local government owner or operator no longer meets the financial test requirements of subsections (b) and (c), the owner or operator shall obtain alternate coverage within thirty (30) days after notification of such a finding.

(f) If the local government owner or operator fails to obtain alternate assurance within:

(1) one hundred fifty (150) days of finding that it no longer meets the requirements of the financial test based on the year end financial statements; or

(2) thirty (30) days of notification by the commissioner that it no longer meets the requirements of the financial test;

the owner or operator shall notify the commissioner of such failure within ten (10) days. (*Solid Waste Management Division; 329 IAC 9-8-15; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3749; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-8-16 Local government guarantee

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23-4-1; IC 13-23-4-2

Sec. 16. (a) A local government owner or operator may satisfy the requirements of section 4 of this rule by obtaining a guarantee that conforms to this section. The guarantor must be a local government that has a substantial governmental relationship with the owner and operator and issues the guarantee as an act incident to that relationship. A local government that acts as the guarantor shall complete any of the following:

- (1) Demonstrate that it meets the bond rating test requirement of section 14 of this rule and deliver a copy of the chief financial officer's letter as contained in section 14(d) of this rule to the local government owner or operator.
- (2) Demonstrate that it meets the worksheet test requirements of section 15 of this rule and deliver a copy of the chief financial officer's letter as contained in section 15(c) of this rule to the local government owner or operator.
- (3) Demonstrate that it meets the local government fund requirements of section 17(a)(1), 17(a)(2), or 17(a)(3) of this rule and deliver a copy of the chief financial officer's letter as contained in section 17 of this rule to the local government owner or operator.

(b) If the local government guarantor is unable to demonstrate financial assurance under section 14, 15, 17(a)(1), 17(a)(2), or 17(a)(3) of this rule, at the end of the financial reporting year, the guarantor shall send by certified mail, before cancellation or nonrenewal of the guarantee, notice to the owner or operator. The guarantee must terminate no less than one hundred twenty (120) days after the date the owner or operator receives the notification as evidenced by the return receipt. The owner or operator shall obtain alternative coverage as specified in section 20(c) of this rule.

(c) The guarantee agreement must be worded as specified in subsection (d) or (e), depending on which of the following alternative guarantee arrangements is selected:

- (1) If, in the default or incapacity of the owner or operator, the guarantor guarantees to fund a standby trust as directed by the commissioner, the guarantee must be worded as specified in subsection (d).
- (2) If, in the default or incapacity of the owner or operator, the guarantor guarantees to make payments as directed by the commissioner for taking corrective action or compensating third parties for bodily injury and property damage, the guarantee must be worded as specified in subsection (e).

(d) If the guarantor is a local government, the local government guarantee with standby trust must be worded exactly as follows, except that instructions in brackets are to be replaced with relevant information and the brackets deleted:

Local Government Guarantee with Standby

Trust Made by a Local Government

Guarantee made this [date] by [insert name of guaranteeing entity], a local government organized under the laws of [insert name of state], herein referred to as guarantor, to the Indiana Department of Environmental Management (IDEM) and to any and all third parties, and obligees, on behalf of [local government owner or operator].

Recitals

1. Guarantor meets or exceeds [select one: the local government bond rating test requirements of 329 IAC 9-8-14, the local government financial test requirements of 329 IAC 9-8-15, or the local government fund under 329 IAC 9-8-17(a)(1), 329 IAC 9-8-17(a)(2), or 329 IAC 9-8-17(a)(3)].

2. [Local government owner or operator] owns or operates the following underground storage tank(s) covered by this guarantee: [List the number of tanks at each facility and the name(s) and address(es) of the facility(ies) where the tanks are located. If more than one instrument is used to assure different tanks at any one facility, for each tank covered by this instrument, list the tank identification number provided in the notification submitted pursuant to 329 IAC 9-2-2, and the name and address of the facility.] This guarantee satisfies 329 IAC 9-8 requirements for assuring funding for [insert "taking corrective action" or "compensating third parties for bodily injury and property damage caused by" or "taking corrective action and compensating third parties for bodily injury and property damage caused by" either "sudden accidental releases" or "nonsudden accidental releases" or "accidental releases"; if coverage is different for different tanks or locations, indicate the type of coverage applicable to each tank or location] arising from operating the above-identified underground storage tank(s) in the amount of [insert dollar amount] per occurrence and [insert dollar amount] annual aggregate.

3. Incident to our substantial governmental relationship with [local government owner or operator], guarantor guarantees to IDEM

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and to any and all third parties that:

In the event that [local government owner or operator] fails to provide alternative coverage within 60 days after receipt of a notice of cancellation of this guarantee and the IDEM commissioner has determined or suspects that a release has occurred at an underground storage tank covered by this guarantee, the guarantor, upon instructions from the IDEM commissioner, shall fund a standby trust fund in accordance with the provisions of 329 IAC 9-8-22 in an amount not to exceed the coverage limits specified above.

In the event that the IDEM commissioner determines that [local government owner or operator] has failed to perform corrective action for releases arising out of the operation of the above-identified tank(s) in accordance with 329 IAC 9-5, the guarantor, upon written instructions from the IDEM commissioner, shall fund a standby trust fund in accordance with the provisions of 329 IAC 9-8-22 in an amount not to exceed the coverage limits specified above.

If [owner or operator] fails to satisfy a judgment or award based on a determination of liability for bodily injury or property damage to third parties caused by [insert "sudden" or "nonsudden" or both] accidental releases arising from the operation of the above-identified tank(s), or fails to pay an amount agreed to in settlement of a claim arising from or alleged to arise from such injury or damage, the guarantor, upon written instructions from the IDEM commissioner, shall fund a standby trust in accordance with the provisions of 329 IAC 9-8-22 to satisfy such judgment(s), award(s), or settlement agreement(s) up to the limits of coverage specified above.

4. Guarantor agrees that if, at the end of any fiscal year before cancellation of this guarantee, the guarantor fails to meet or exceed the requirements of the financial responsibility mechanism specified in paragraph (1), guarantor shall send within one hundred twenty (120) days of such failure, by certified mail, notice to [local government owner or operator] as evidenced by the return receipt.

5. Guarantor agrees to notify [owner or operator] by certified mail of a voluntary or involuntary proceeding under the bankruptcy laws of the United States (11 U.S.C. 101 et seq.), naming guarantor as debtor within ten (10) days after commencement of the proceeding.

6. Guarantor agrees to remain bound under this guarantee notwithstanding any modification or alteration of any obligation of [owner or operator] pursuant to 329 IAC 9.

7. Guarantor agrees to remain bound under this guarantee for so long as [local government owner or operator] must comply with the applicable financial responsibility requirements of 329 IAC 9-8 for the above-identified tank(s), except that guarantor may cancel this guarantee by sending notice by certified mail to [owner or operator], such cancellation to become effective no earlier than one hundred twenty (120) days after receipt of such notice by [owner or operator] as evidenced by the return receipt.

8. The guarantor's obligation does not apply to any of the following:

- a. Any obligation of [local government owner or operator] under a workers' compensation, disability benefits, or unemployment compensation law or other similar law.
- b. Bodily injury to an employee of [local government owner or operator] arising from, and in the course of, employment by [local government owner or operator].
- c. Bodily injury or property damage arising from the ownership, maintenance, use, or entrustment to others of any aircraft, motor vehicle, or watercraft.
- d. Property damage to any property owned, rented, loaned to, in the care, custody, or control of, or occupied by [local government owner or operator] that is not the direct result of a release from a petroleum underground storage tank.
- e. Bodily injury or property damage for which [owner or operator] is obligated to pay damages by reason of the assumption of liability in a contract or agreement other than a contract or agreement entered into to meet the requirements of 329 IAC 9-8-4.

9. Guarantor expressly waives notice of acceptance of this guarantee by IDEM, by any or all third parties, or by [local government owner or operator].

I hereby certify that the wording of this guarantee is identical to the wording specified in 329 IAC 9-8-16(d) as such regulations were constituted on the effective date shown immediately below.

Effective date:

[Name of guarantor]

[Authorized signature for guarantor]

[Name of person signing]

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[Title of person signing]

Signature of witness or notary:

(e) If the guarantor is a local government, the local government guarantee without standby trust must be worded exactly as follows, except that instructions in brackets are to be replaced with relevant information and the brackets deleted:

Local Government Guarantee without Standby

Trust Made by a Local Government

Guarantee made this [date] by [insert name of guaranteeing entity], a local government organized under the laws of [insert name of state], herein referred to as guarantor, to the Indiana Department of Environmental Management (IDEM) and to any and all third parties, and obligees, on behalf of [local government owner or operator].

Recitals

1. Guarantor meets or exceeds [select one (1): the local government bond rating test requirements of 329 IAC 9-8-14, the local government financial test requirements of 329 IAC 9-8-15, or the local government fund under 329 IAC 9-8-17(a)(1), 329 IAC 9-8-17(a)(2), or 329 IAC 9-8-17(a)(3)].

2. [Local government owner or operator] owns or operates the following underground storage tank(s) covered by this guarantee: [List the number of tanks at each facility and the name(s) and address(es) of the facility(ies) where the tanks are located. If more than one (1) instrument is used to assure different tanks at any one (1) facility, for each tank covered by this instrument, list the tank identification number provided in the notification submitted pursuant to 329 IAC 9-2-2, and the name and address of the facility.] This guarantee satisfies 329 IAC 9-8 requirements for assuring funding for [insert "taking corrective action" or "compensating third parties for bodily injury and property damage caused by" or "taking corrective action and compensating third parties for bodily injury and property damage caused by" either "sudden accidental releases" or "nonsudden accidental releases" or "accidental releases"; if coverage is different for different tanks or locations, indicate the type of coverage applicable to each tank or location] arising from operating the above-identified underground storage tank(s) in the amount of [insert dollar amount] per occurrence and [insert dollar amount] annual aggregate.

3. Incident to our substantial governmental relationship with [local government owner or operator], guarantor guarantees to IDEM and to any and all third parties and obligees that:

In the event that [local government owner or operator] fails to provide alternative coverage within 60 days after receipt of a notice of cancellation of this guarantee and the IDEM commissioner has determined or suspects that a release has occurred at an underground storage tank covered by this guarantee, the guarantor, upon written instructions from the IDEM commissioner, shall make funds available to pay for corrective actions and compensate third parties for bodily injury and property damage in an amount not to exceed the coverage limits specified above.

In the event that the IDEM commissioner determines that [local government owner or operator] has failed to perform corrective action for releases arising out of the operation of the above-identified tank(s) in accordance with 329 IAC 9-5, the guarantor, upon written instructions from the IDEM commissioner, shall make funds available to pay for corrective actions in an amount not to exceed the coverage limits specified above.

If [owner or operator] fails to satisfy a judgment or award based on a determination of liability for bodily injury or property damage to third parties caused by [insert "sudden" or "nonsudden" or both] accidental releases arising from the operation of the above-identified tank(s), or fails to pay an amount agreed to in settlement of a claim arising from or alleged to arise from such injury or damage, the guarantor, upon written instructions from the IDEM commissioner, shall make funds available to compensate third parties for bodily injury and property damage in an amount not to exceed the coverage limits specified above.

4. Guarantor agrees that if, at the end of any fiscal year before cancellation of this guarantee, the guarantor fails to meet or exceed the requirements of the financial responsibility mechanism specified in paragraph (1), guarantor shall send within one hundred twenty (120) days of such failure, by certified mail, notice to [local government owner or operator] as evidenced by the return receipt.

5. Guarantor agrees to notify [owner or operator] by certified mail of a voluntary or involuntary proceeding under the bankruptcy laws of the United States (11 U.S.C. 101 et seq.), naming guarantor as debtor within ten (10) days after commencement of the proceeding.

6. Guarantor agrees to remain bound under this guarantee notwithstanding any modification or alteration of any obligation of [owner or operator] pursuant to 329 IAC 9.

7. Guarantor agrees to remain bound under this guarantee for so long as [local government owner or operator] must comply with

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the applicable financial responsibility requirements of 329 IAC 9-8 for the above-identified tank(s), except that guarantor may cancel this guarantee by sending notice by certified mail to [owner or operator], such cancellation to become effective no earlier than one hundred twenty (120) days after receipt of such notice by [owner or operator] as evidenced by the return receipt. If notified of a probable release, the guarantor agrees to remain bound to the terms of this guarantee for all charges arising from the release, up to the coverage limits specified above, notwithstanding the cancellation of the guarantee with respect to future releases.

8. The guarantor's obligation does not apply to any of the following:

- a. Any obligation of [local government owner or operator] under a workers' compensation, disability benefits, or unemployment compensation law or other similar law.
- b. Bodily injury to an employee of [local government owner or operator] arising from, and in the course of, employment by [local government owner or operator].
- c. Bodily injury or property damage arising from the ownership, maintenance, use, or entrustment to others of any aircraft, motor vehicle, or watercraft.
- d. Property damage to any property owned, rented, loaned to, in the care, custody, or control of, or occupied by [local government owner or operator] that is not the direct result of a release from a petroleum underground storage tank.
- e. Bodily injury or property damage for which [owner or operator] is obligated to pay damages by reason of the assumption of liability in a contract or agreement other than a contract or agreement entered into to meet the requirements of 329 IAC 9-8-4.

9. Guarantor expressly waives notice of acceptance of this guarantee by IDEM, by any or all third parties, or by [local government owner or operator].

I hereby certify that the wording of this guarantee is identical to the wording specified in 329 IAC 9-8-16(e) as such regulations were constituted on the effective date shown immediately below.

Effective date:

[Name of guarantor]

[Authorized signature for guarantor]

[Name of person signing]

[Title of person signing]

Signature of witness or notary:

(Solid Waste Management Division; 329 IAC 9-8-16; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3752; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535)

329 IAC 9-8-17 Local government fund

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23-4-1; IC 13-23-4-2

Sec. 17. (a) A local government owner or operator may satisfy the requirements of section 4 of this rule by establishing a dedicated fund account that conforms to this section. Except as specified in subdivision (2), a dedicated fund must not be commingled with other funds or otherwise used in normal operations. A dedicated fund is considered eligible if it meets one (1) of the following requirements:

(1) The fund is:

(A) dedicated by:

- (i) state constitutional provision; or
- (ii) local government:
 - (AA) statute;
 - (BB) charter;
 - (CC) ordinance; or
 - (DD) order;

(B) established to pay for taking corrective action and for compensating third parties for bodily injury and property damage caused by accidental releases arising from the operation of petroleum underground storage tanks; and

(C) funded for:

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- (i) the full amount of coverage required under section 4 of this rule; or
 - (ii) part of the required amount of coverage and used in combination with another mechanism that provides the remaining coverage.
 - (2) The fund is:
 - (A) dedicated by:
 - (i) state constitutional provision; or
 - (ii) local government:
 - (AA) statute;
 - (BB) charter;
 - (CC) ordinance; or
 - (DD) order;
 - (B) established as a contingency fund for general emergencies, including taking corrective action and compensating third parties for bodily injury and property damage caused by accidental releases arising from the operation of petroleum underground storage tanks; and
 - (C) funded for either of the following:
 - (i) Five (5) times the full amount of coverage required under section 4 of this rule.
 - (ii) Part of the required amount of coverage and used in combination with another mechanism that provides the remaining coverage. If the fund is funded for less than five (5) times the amount of coverage required under section 4 of this rule, the amount of financial responsibility demonstrated by the fund must not exceed one-fifth ($\frac{1}{5}$) the amount in the fund.
 - (3) The following requirements must be completed:
 - (A) The fund is dedicated by:
 - (i) state constitutional provision; or
 - (ii) local government:
 - (AA) statute;
 - (BB) charter;
 - (CC) ordinance; or
 - (DD) order.
 - (B) The fund is established to pay for taking corrective action and for compensating third parties for bodily injury and property damage caused by accidental releases arising from the operation of petroleum underground storage tanks.
 - (C) A payment is made to the fund once every year for seven (7) years until the fund is fully funded. This seven (7) year period is hereafter referred to as the "pay-in-period". The amount of each payment must be determined by the following formula:
$$\frac{TF - CF}{Y}$$
- Where:
- TF = Total required financial assurance for the owner or operator.
 - CF = Current amount in the fund.
 - Y = Number of years remaining in the pay-in-period.
- (D) The local government owner or operator shall meet one (1) of the following requirements:
 - (i) The local government owner or operator has available bonding authority, approved through voter referendum (if such approval is necessary prior to the issuance of bonds), that meets the following requirements:
 - (AA) The bonding authority is for an amount equal to the difference between the required amount of coverage and the amount held in the dedicated fund.
 - (BB) The bonding authority must be available for taking corrective action and for compensating third parties for bodily injury and property damage caused by accidental releases arising from the operation of petroleum underground storage tanks.
 - (ii) The local government owner or operator has a letter signed by the appropriate state attorney general that states the following:
 - (AA) The use of the bonding authority will not increase the local government's debt beyond the legal debt

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ceilings established by the relevant state laws.

(BB) Prior voter approval is not necessary before use of the bonding authority.

(b) To demonstrate that it meets the requirements of the local government fund, the chief financial officer of the:

(1) local government owner or operator and local government guarantor;

(2) local government owner or operator; or

(3) local government guarantor;

shall sign a letter worded exactly as follows, except that the instructions in brackets are to be replaced by the relevant information and the brackets deleted:

Letter from Chief Financial Officer

I am the chief financial officer of [insert name and address of local government owner or operator or guarantor]. This letter is in support of the use of the local government fund mechanism to demonstrate financial responsibility for [insert "taking corrective action" or "compensating third parties for bodily injury and property damage" or both of those phrases] caused by [insert "sudden accidental releases" or "nonsudden accidental releases" or both of those phrases] in the amount of at least [insert dollar amount] per occurrence and [insert dollar amount] annual aggregate arising from operating (an) underground storage tank(s).

Underground storage tanks at the following facilities are assured by this local government fund mechanism: [List for each facility the name and address of the facility where tanks are assured by the local government fund.]

[Insert "The local government fund is funded for the full amount of coverage required under 329 IAC 9-8-4, or funded for part of the required amount of coverage and used in combination with other mechanism(s) that provide the remaining coverage" or "The local government fund is funded for ten (10) times the full amount of coverage required under 329 IAC 9-8-4, or funded for part of the required amount of coverage and used in combination with other mechanisms(s) that provide the remaining coverage" or "A payment is made to the fund once every year for seven (7) years until the fund is fully funded and [insert name of local government owner or operator] has available bonding authority, approved through voter referendum, of an amount equal to the difference between the required amount of coverage and the amount held in the dedicated fund" or "A payment is made to the fund once every year for seven (7) years until the fund is fully funded and I have attached a letter signed by the state attorney general stating that:

1. the use of the bonding authority will not increase the local government's debt beyond the legal debt ceilings established by the relevant state laws; and

2. prior voter approval is not necessary before use of the bonding authority".]

The details of the local government fund are as follows:

Amount in fund (market value of fund at close of last fiscal year):

[If fund balance is incrementally funded as specified in 329 IAC 9-8-17(a)(3), insert:

Amount added to fund in the most recently completed fiscal year:

Number of years remaining in the pay-in-period: ____.]

A copy of the state constitutional provision, or local government statute, charter, ordinance, or order dedicating the fund is attached. I hereby certify that the wording of this letter is identical to the wording specified in 329 IAC 9-8-17(b) as such regulations were constituted on the date shown immediately below.

[Date]

[Signature]

[Name]

[Title]

(Solid Waste Management Division; 329 IAC 9-8-17; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3755; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535)

329 IAC 9-8-18 Substitution of financial assurance mechanisms by owner or operator

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23-4-1; IC 13-23-4-2

Sec. 18. (a) An owner or operator may substitute any alternate financial assurance mechanism under this rule, provided that at all times the owner maintains an effective financial assurance mechanism or combination of mechanisms that satisfies section

4 of this rule.

(b) After obtaining alternate financial assurance under this rule, an owner or operator may cancel a financial assurance mechanism by providing notice to the provider of financial assurance. (*Solid Waste Management Division; 329 IAC 9-8-18; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3756; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-8-19 Cancellation or nonrenewal by a provider of financial assurance

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23-4-1; IC 13-23-4-2

Sec. 19. (a) Except as otherwise provided, a provider of financial assurance may cancel or fail to renew an assurance mechanism by sending a notice of termination by certified mail to the owner or operator. The following requirements must be completed:

(1) Termination of a:

- (A) local government guarantee;
- (B) guarantee;
- (C) surety bond; or
- (D) letter of credit;

must not occur until one hundred twenty (120) days after the date on which the owner or operator receives the notice of termination as evidenced by the return receipt.

(2) Termination of:

- (A) insurance, except for nonpayment or misrepresentation by the insured;
- (B) risk retention coverage, except for nonpayment or misrepresentation by the insured; or
- (C) the excess liability trust fund under section 11 of this rule;

must not occur until sixty (60) days after the date on which the owner or operator receives the notice of termination as evidenced by the return receipt. Termination for nonpayment of premium or misrepresentation by the insured must not occur until a minimum of ten (10) days after the date on which the owner or operator receives the notice of termination as evidenced by the return receipt.

(b) If a provider of financial responsibility cancels or fails to renew for reasons other than incapacity of the provider as specified in section 24 of this rule, the owner or operator shall obtain alternate coverage as specified in this section within sixty (60) days after receipt of the notice of termination. If the owner or operator fails to obtain alternate coverage within sixty (60) days after receipt of the notice of termination, the owner or operator shall notify the commissioner of such failure and submit the following:

- (1) The name and address of the provider of financial assurance.
- (2) The effective date of termination.
- (3) The evidence of the financial assistance mechanism subject to the termination maintained in accordance with section 21(b) of this rule.

(*Solid Waste Management Division; 329 IAC 9-8-19; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3757; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-8-20 Reporting by owner or operator

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23-4-1; IC 13-23-4-2

Sec. 20. (a) An owner or operator shall submit the appropriate forms listed in section 21(b) of this rule documenting current evidence of financial responsibility to the commissioner when any of the following occur:

- (1) Within thirty (30) days after the owner or operator identifies a release from an underground storage tank required to be reported under 329 IAC 9-4-4 or 329 IAC 9-5-2.
- (2) If the owner or operator fails to obtain alternate coverage as required by this rule, within thirty (30) days after the owner or operator receives notice of any of the following:

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(A) Commencement of a voluntary or involuntary proceeding under the bankruptcy laws of the United States (11 U.S.C. 101 et seq.) naming a provider of financial assurance as a debtor.

(B) Suspension or revocation of the authority of a provider of financial assurance to issue a financial assurance mechanism.

(C) Failure of a guarantor to meet the requirements of the financial test.

(D) Other incapacity of a provider of financial assurance.

(3) As required by sections 6(g) and 19(b) of this rule.

(b) An owner or operator shall certify compliance with the financial responsibility requirements of this article as specified in the new tank notification form when notifying the Indiana department of environmental management, underground storage tank branch of the installation of a new underground storage tank under 329 IAC 9-2-2.

(c) The commissioner may require an owner or operator to submit:

(1) evidence of financial assurance as described in section 21(b) of this rule; or

(2) other information relevant to compliance with this rule;

at any time. (*Solid Waste Management Division; 329 IAC 9-8-20; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3757; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-8-21 Record keeping

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23-4-1; IC 13-23-4-2

Sec. 21. (a) An owner or operator shall maintain evidence of all financial assurance mechanisms used to demonstrate financial responsibility under this rule for an underground storage tank until released from the requirements of this rule under section 23 of this rule. An owner or operator shall maintain such evidence at the underground storage tank site or the owner's or operator's place of work. Records maintained off site must be made available upon request of the Indiana department of environmental management, underground storage tank branch.

(b) An owner or operator shall maintain the following types of evidence of financial responsibility:

(1) An owner or operator using an assurance mechanism specified in:

(A) sections 6 through 10 of this rule;

(B) section 11(c) of this rule;

(C) section 12 of this rule; or

(D) sections 14 through 17 of this rule;

shall maintain a copy of the instrument worded as specified.

(2) An owner or operator using a:

(A) financial test or guarantee; or

(B) local government financial test or local government guarantee supported by the local government financial test; shall maintain a copy of the chief financial officer's letter based on year end financial statements for the most recent, completed financial reporting year. Such evidence must be on file no later than one hundred twenty (120) days after the close of the financial reporting year.

(3) An owner or operator using a guarantee, surety bond, letter of credit, or certificate of deposit shall maintain a copy of the signed standby trust fund agreement and copies of any amendments to the agreement.

(4) A local government owner or operator using a local government guarantee under section 16(d) of this rule shall maintain a copy of the signed standby trust fund agreement and copies of any amendments to the agreement.

(5) A local government owner or operator using the local government bond rating test shall maintain a copy of its bond rating published within the last twelve (12) months by Moody's or Standard & Poor's.

(6) A local government owner or operator using the local government guarantee, where the guarantor's demonstration of financial responsibility relies on the local government bond rating test, shall maintain a copy of the guarantor's bond rating published within the last twelve (12) months by Moody's or Standard & Poor's.

(7) An owner or operator using an insurance policy or risk retention group coverage shall maintain a copy of the signed insurance policy or risk retention group coverage policy, with the endorsement or certificate of insurance and any amend-

ments to the agreements.

(8) An owner or operator covered by the excess liability trust fund under section 11 of this rule shall maintain on file a copy of any evidence of coverage supplied by or required by Indiana under 40 CFR 280.101(d). If a certificate of deposit is used under section 11(c)(2) of this rule, the following must be maintained on file:

(A) The updated copy of the certification and agreement.

(B) Designation of the current location of the certificate of deposit.

(9) An owner or operator using a local government fund shall maintain the following documents:

(A) A copy of the state constitutional provision or local government statute, charter, ordinance, or order dedicating the fund.

(B) Year end financial statements for the most recent, completed financial reporting year showing the amount in the fund. If the fund is established under section 17(a)(3) of this rule using incremental funding backed by bonding authority, the financial statements must show the following:

(i) The previous year's balance.

(ii) The amount of funding during the year.

(iii) The closing balance in the fund.

(C) If the fund is established under section 17(a)(3) of this rule using incremental funding backed by bonding authority, the owner or operator also shall maintain documentation of the required bonding authority, including either:

(i) the results of a voter referendum as specified under section 17(a)(3)(A) of this rule; or

(ii) attestation by the state attorney general as specified under section 17(a)(3)(B) of this rule.

(10) A local government owner or operator using the local government guarantee supported by the local government fund shall maintain a copy of the guarantor's year end financial statements for the most recent, completed financial reporting year showing the amount of the fund.

(c) An owner or operator that uses an assurance mechanism specified in sections 6 through 17 of this rule shall maintain an updated copy of a certification of financial responsibility worded as follows, except that instructions in brackets are to be replaced with the relevant information and the brackets deleted:

Certification of Financial Responsibility

[Owner or operator] hereby certifies that it is in compliance with the requirements of 329 IAC 9-8.

The financial assurance mechanism(s) used to demonstrate financial responsibility under 329 IAC 9-8 is (are) as follows:

[For each mechanism, list the type of mechanism, name of issuer, mechanism number (if applicable), amount of coverage, effective period of coverage, and whether the mechanism covers "taking corrective action" or "compensating third parties for bodily injury and property damage caused by" or "taking corrective action and compensating third parties for bodily injury and property damage caused by" either "sudden accidental releases" or "nonsudden accidental releases" or "accidental releases".]

[Signature of owner or operator]

[Name of owner or operator]

[Title]

[Date]

[Signature of witness or notary]

[Name of witness or notary]

[Date]

(d) The owner or operator shall update the certification of financial responsibility whenever the financial assurance mechanism used to demonstrate financial responsibility changes. (*Solid Waste Management Division; 329 IAC 9-8-21; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3757; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-8-22 Drawing on financial assurance mechanisms

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23-4-1; IC 13-23-4-2

Sec. 22. (a) Except as specified in subsection (d), the commissioner shall require the guarantor, surety, institution that issues a letter of credit, or owner or operator that obtains a certificate of deposit to place the amount of funds stipulated by the

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commissioner, up to the limit of funds provided by the financial assurance mechanism, into the standby trust if either of the following occur:

(1) The conditions of clauses (A) and (B) are completed as follows:

(A) The owner or operator fails to establish alternate financial assurance within sixty (60) days after receiving notice of cancellation of the guarantee, surety bond, letter of credit, or, as applicable, other financial assurance mechanism.

(B) Either of the following occur:

(i) The commissioner determines or suspects that a release from an underground storage tank covered by the mechanism has occurred and so notifies the owner or operator.

(ii) The owner or operator has notified the commissioner under 329 IAC 9-4 or 329 IAC 9-5 of a release from an underground storage tank covered by the mechanism.

(2) The conditions of subsection (b)(1), (b)(2)(A), or (b)(2)(B) are satisfied.

(b) The commissioner may draw on a standby trust fund when either of the following occur:

(1) The commissioner makes a final determination that a release has occurred and immediate or long term corrective action for the release is needed, and the owner or operator, after appropriate notice and opportunity to comply under 329 IAC 9-4 and 329 IAC 9-5, has not conducted corrective action as required under 329 IAC 9-5.

(2) The commissioner has received either of the following:

(A) Certification from the:

(i) owner or operator;

(ii) third party liability claimant;

(iii) attorney representing the owner or operator; and

(iv) attorney representing the third party liability claimant;

that a third party liability claim should be paid. The certification must be worded as follows, except that instructions in brackets are to be replaced with the relevant information and the brackets deleted:

Certification of Valid Claim

The undersigned, as principals and as legal representatives of [owner or operator] and [insert name and address of third party claimant], hereby certify that the claim of bodily injury [and/or] property damage caused by an accidental release arising from operating [owner's or operator's] underground storage tank should be paid in the amount of \$[_____].

[Signatures]

Owner or Operator

Attorney for Owner or Operator

(Notary)

Date

[Signatures]

Claimant(s)

Attorney(s) for Claimant(s)

(Notary)

Date

(B) A valid final court order establishing a judgment against the owner or operator for bodily injury or property damage caused by an accidental release from an underground storage tank covered by financial assurance under this rule the commissioner determines that the owner or operator has not satisfied the judgment.

(c) If the commissioner determines that the amount of corrective action costs and third party liability claims eligible for payment under subsection (b) may exceed the balance of the standby trust fund and the obligation of the provider of financial assurance, the first priority for payment must be corrective action costs necessary to protect human health and the environment. The commissioner shall direct payment of third party liability claims in the order in which the commissioner receives:

(1) certifications under subsection (b)(2)(A); and

(2) valid court orders under subsection (b)(2)(B).

(d) A governmental entity that acts as guarantor under section 16(e) of this rule, the local government guarantee without standby trust, shall make payments as directed by the commissioner under the circumstances described in this section. (*Solid Waste Management Division; 329 IAC 9-8-22; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3759; readopted filed Jan 10, 2001, 3:25 p.m.: 24*

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329 IAC 9-8-23 Release from the requirements

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23-4-1; IC 13-23-4-2

Sec. 23. An owner or operator is no longer required to maintain financial responsibility under this rule for an underground storage tank after the tank has been properly closed or, if corrective action is required, after corrective action has been completed and the tank has been properly closed as required by 329 IAC 9-6. (*Solid Waste Management Division; 329 IAC 9-8-23; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3760; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-8-24 Bankruptcy or other incapacity of owner or operator or provider of financial assurance

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23-4-1; IC 13-23-4-2

Sec. 24. (a) Within ten (10) days after commencement of a voluntary or involuntary proceeding under the bankruptcy laws of the United States (11 U.S.C. 101 et seq.) naming an owner or operator as debtor, the owner or operator shall:

- (1) notify the commissioner by certified mail of such commencement; and
- (2) submit the appropriate forms listed in section 21(b) of this rule documenting current financial responsibility.

(b) Within ten (10) days after commencement of a voluntary or involuntary proceeding under the bankruptcy laws of the United States (11 U.S.C. 101 et seq.) naming a guarantor providing financial assurance as debtor, such guarantor shall notify the owner or operator by certified mail of such commencement as required under the terms of the guarantee specified in section 7 or 11(c)(7) of this rule.

(c) Within ten (10) days after commencement of a voluntary or involuntary proceeding under the bankruptcy laws of the United States (11 U.S.C. 101 et seq.) naming a local government owner or operator as debtor, the local government owner or operator shall:

- (1) notify the commissioner by certified mail of such commencement; and
- (2) submit the appropriate forms listed in section 21(b) of this rule documenting current financial responsibility.

(d) Within ten (10) days after commencement of a voluntary or involuntary proceeding under the bankruptcy laws of the United States (11 U.S.C. 101 et seq.) naming a guarantor providing a local government financial assurance as debtor, such guarantor shall notify the local government owner or operator by certified mail of such commencement as required under the terms of the guarantee specified in section 16 of this rule.

(e) An owner or operator who obtains financial assurance by a mechanism other than the financial test of self-insurance shall be deemed to be without the required financial assurance in the event of a:

- (1) bankruptcy or incapacity of its provider of financial assurance; or
- (2) suspension or revocation of the authority of the provider of financial assurance to issue a:
 - (A) guarantee;
 - (B) insurance policy;
 - (C) risk retention group coverage policy;
 - (D) surety bond;
 - (E) letter of credit; or
 - (F) certificate of deposit.

The owner or operator shall obtain alternate financial assurance as specified in this rule within thirty (30) days after receiving notice of such an event. If the owner or operator does not obtain alternate coverage within thirty (30) days after such notification, the owner shall notify the commissioner.

(f) Within thirty (30) days after receipt of notification that the excess liability trust fund under section 11 of this rule has become incapable of paying for assured corrective action or third party compensation costs, the owner or operator shall obtain alternate financial assurance. (*Solid Waste Management Division; 329 IAC 9-8-24; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3760; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

329 IAC 9-8-25 Replenishment of guarantees, letters of credit, surety bonds, or certificates of deposit

Authority: IC 13-14-8-1; IC 13-14-8-2; IC 13-23-1-1; IC 13-23-1-2

Affected: IC 13-23-4-1; IC 13-23-4-2

Sec. 25. (a) If at any time after a standby trust is funded, upon the instruction of the commissioner, with funds drawn from a guarantee, local government guarantee with standby trust, letter of credit, surety bond, or certificate of deposit, and the amount in the standby trust is reduced below the full amount of coverage required, the owner or operator shall, by the anniversary date of the financial mechanism from which the funds were drawn or within one hundred twenty (120) days after the reduction has occurred, whichever is sooner:

(1) replenish the value of financial assurance to equal the full amount of coverage required; or

(2) acquire another financial assurance mechanism for the amount by which funds in the standby trust have been reduced.

(b) As used in this section, "full amount of coverage required" means the amount of coverage to be provided by section 4 of this rule. If a combination of mechanisms is used to provide the assurance funds that are drawn upon, replenishment must occur by the earliest anniversary date among the mechanisms or within one hundred twenty (120) days after the reduction has occurred, whichever is sooner. (*Solid Waste Management Division; 329 IAC 9-8-25; filed Jul 19, 1999, 12:00 p.m.: 22 IR 3760; readopted filed Jan 10, 2001, 3:25 p.m.: 24 IR 1535*)

Rule 9. Underground Storage Tank Operator Training and Certification

329 IAC 9-9-1 Applicability

Authority: IC 4-22-2; IC 13-14-8-4; IC 13-14-8-7; IC 13-19-3-1; IC 13-23

Affected: IC 13-23

Sec. 1. This rule applies to all owners and operators of UST systems, and operators of UST systems that are classified by this rule. This rule establishes UST operator training and certification requirements. (*Solid Waste Management Division; 329 IAC 9-9-1; filed Dec 18, 2012, 2:02 p.m.: 20130116-IR-329100066FRA*)

329 IAC 9-9-2 Definitions

Authority: IC 4-22-2; IC 13-14-8-4; IC 13-14-8-7; IC 13-19-3-1; IC 13-23-1-1; IC 13-23-1-3; IC 13-23-7-1

Affected: IC 13-23

Sec. 2. (a) In addition to the definitions in 329 IAC 9-1, the definitions in this section apply throughout the rule.

(b) "Certificate" means a document issued by the department to a person who has met the training and operator knowledge evaluation requirements of this rule for a Class A or Class B UST system operator. A certificate is issued by the department online after the person has successfully completed the online training and operator knowledge evaluation program provided by the department.

(c) "Certified" means the following:

(1) For a Class A or Class B operator, a person that has been issued a Class A or Class B operator's certificate by the department for the period the certificate is valid.

(2) For a Class C operator, an employee or contractor of the UST system facility that has been issued a Class C certification by the designated Class A or Class B operator and the authorized trainer, if applicable, for the period the certification is valid.

(d) "Class A operator" means a person with primary responsibility for overall operation of one (1) or more UST systems.

(e) "Class B operator" means a person who has daily on-site responsibility and direct control over the operation, maintenance, and record keeping for one (1) or more UST systems.

(f) "Class C operator" means an employee or contractor of the UST system facility who has on-site responsibility to initially respond to alarms or other indications of emergencies caused by spills, leaks, or releases from UST systems.

(g) "On-site" means all areas within the facility boundary.

(h) "Partially attended facility" means a UST system facility that operates under the applicable provisions of 329 IAC 9

without the regular presence of a certified operator during a specific daily or weekly period, for example, a retail facility that is attended during peak hours for sales and unattended during off peak hours for sales.

(i) "Unattended facility" means a UST system facility that operates under the applicable provisions of this article without the regular presence of a certified operator, including, but not limited to:

- (1) a facility utilizing only an emergency standby generator UST that is limited to use during service power loss; or
- (2) a facility utilizing an electronic control device for limited access dispensing or providing for unattended payment;
- (3) a facility utilizing vehicle drivers to dispense fuel to vehicles and other equipment for business use but not retail sale.

(Solid Waste Management Division; 329 IAC 9-9-2; filed Dec 18, 2012, 2:02 p.m.: 20130116-IR-329100066FRA)

329 IAC 9-9-3 General provisions and transition

Authority: IC 4-22-2; IC 13-14-8-4; IC 13-14-8-7; IC 13-19-3-1; IC 13-23-1-1; IC 13-23-1-3; IC 13-23-7-1

Affected: IC 13-23

Sec. 3. (a) The owner or operator of a UST system must designate a Class A, Class B, and Class C operator for the UST system on or before thirty (30) days after the effective date of this rule, except as provided in subsection (c). The owner and operator of the UST system are responsible for ensuring that the Class A, Class B, and Class C operators fulfill their responsibilities under this rule. Each designated operator must be certified under this rule as follows:

- (1) An incoming designated Class A or Class B operator for an existing UST system without compliance deficiencies documented by the department must be certified within thirty (30) days of assuming full operation and maintenance responsibilities at the UST system.
- (2) An incoming designated Class C operator must be certified before assuming responsibilities at a UST system facility.
- (3) An incoming designated Class A or Class B operator at an existing facility that has compliance deficiencies documented by the department must be certified before assuming full operation and maintenance responsibilities at a UST system facility.
- (4) The owner or operator of a UST system that goes into use after the effective date of this rule must designate a certified Class A, Class B, and Class C operator for that system within thirty (30) days of bringing the UST system into use.

If the owner and operator of the UST system are separate persons, either the owner or operator may designate the Class A, Class B, and Class C operators for the UST system, but both the owner and the operator have equal responsibility to ensure that Class A, Class B, and Class C operators are designated. An owner or operator may contract with another person to provide Class A or Class B operator services for the owner or operator's UST system.

(b) Either a Class A, Class B, or Class C operator must be present on-site during the operation of a UST system facility, except as provided in subsection (c). At the owner or operator's discretion, one (1) person may be designated as the Class A, Class B, and Class C operator for a facility, provided that person complies with the requirements including the training requirements contained in section 6 of this rule, for each class for which that person is designated.

(c) The owner or operator of an unattended facility is not required to designate a Class C operator or have a Class A, Class B, or Class C operator present on-site during the operation of the UST system. The owner or operator of a partially attended facility must designate a Class C operator and have a Class A, Class B, or Class C operator present on-site during the period of time the facility is attended.

(1) Owners and operators of unattended and partially attended facilities must post in a conspicuous place a sign at least one (1) foot high by two (2) feet wide with letters at least one (1) inch high legibly stating the emergency shut-off procedures and the name, address, and telephone number that will reach a designated operator for the UST system along with the name and telephone number of the local emergency responders.

(2) The designated operators for the unattended or partially attended UST system remain responsible for operation and maintenance activities must otherwise meet the requirements of this rule.

(d) A certified Class A or Class B operator may be a designated operator for more than one (1) UST system facility.

(e) A person shall not perform the duties of a Class A or Class B operator unless that individual has a valid certificate from the department relating to that class. A person shall not perform the duties of a Class C operator unless that person has a valid certification as a Class C operator. *(Solid Waste Management Division; 329 IAC 9-9-3; filed Dec 18, 2012, 2:02 p.m.: 20130116-IR-329100066FRA)*

329 IAC 9-9-4 Penalties and enforcement

Authority: IC 4-22-2; IC 13-14-8-4; IC 13-14-8-7; IC 13-19-3-1; IC 13-23-1-1; IC 13-23-1-3; IC 13-23-7-1

Affected: IC 13-14; IC 13-23-14; IC 13-30

Sec. 4. Penalties for violation of this article shall be governed by IC 13-14, IC 13-23-14, and IC 13-30. (*Solid Waste Management Division; 329 IAC 9-9-4; filed Dec 18, 2012, 2:02 p.m.: 20130116-IR-329100066FRA*)

329 IAC 9-9-5 Classification of operators

Authority: IC 4-22-2; IC 13-14-8-4; IC 13-14-8-7; IC 13-19-3-1; IC 13-23-1-1; IC 13-23-1-3; IC 13-23-7-1

Affected: IC 13-23

Sec. 5. (a) A Class A operator is the person with primary responsibility for the overall operation of one (1) or more UST systems. The Class A operator's responsibilities include managing resources and personnel, such as establishing work assignments, to achieve and maintain compliance with this article and state and federal laws related to USTs. Class A operators are responsible for ensuring that appropriate personnel do all of the following:

- (1) Properly operate and maintain the UST system.
- (2) Maintain appropriate records.
- (3) Receive training to operate and maintain the UST system and keep records.
- (4) Properly respond to emergencies or alarms related to releases, leaks, or spills from UST systems at the facility.
- (5) Make financial responsibility documents available to the department as required.

(b) A Class B operator is a person who has daily on-site responsibility and direct control over the operation, maintenance, and record keeping for one (1) or more UST systems. Class B operators are responsible for monitoring and ensuring that all of the following occur:

- (1) Release or leak detection methods, record keeping, and reporting requirements are met.
- (2) Release or leak prevention equipment, record keeping, and reporting requirements are met.
- (3) All relevant equipment complies with performance standards.
- (4) Appropriate personnel are trained to properly respond to emergencies or alarms caused by releases, leaks, or spills from the UST system.
- (5) All designated Class C operators are provided with written instructions that include emergency response procedures as follows:
 - (A) Procedures for overfill protection during delivery of regulated substances.
 - (B) Operation of emergency shut-off systems.
 - (C) Appropriate responses to all alarms.
 - (D) Reporting of leaks, spills, and releases.
 - (E) All site-specific emergency procedures.
 - (F) The name and contact information of persons to contact if a leak, spill, or release occurs.

(c) A Class C operator is an employee or contractor of the UST system facility who has on-site responsibility to initially respond to alarms or other indications of emergencies caused by spills, leaks, or releases from UST systems. The Class C operator notifies the Class B or Class A operator for the UST system and appropriate emergency responders, including 911 personnel, when necessary. This operator also controls or monitors the dispensing or sale of regulated substances.

(d) The Class C operator training must include an understanding of the instructions described in subsection (b)(5) and how to take appropriate action in response to the following:

- (1) Emergencies, including situations posing an immediate danger or threat to the public or to the environment that require immediate action.
- (2) Alarms caused by spills, leaks, or releases from UST system.
- (3) Reports from the public of damaged equipment or unusual operating conditions.

(*Solid Waste Management Division; 329 IAC 9-9-5; filed Dec 18, 2012, 2:02 p.m.: 20130116-IR-329100066FRA*)

329 IAC 9-9-6 Training requirements

Authority: IC 4-22-2; IC 13-14-8-4; IC 13-14-8-7; IC 13-19-3-1; IC 13-23-1-1; IC 13-23-1-3; IC 13-23-7-1

Affected: IC 13-23

Sec. 6. (a) A person seeking to be certified as a Class A or Class B operator shall complete the online training and operator knowledge evaluation course provided by the department that relates to the responsibilities of the Class A or Class B operator contained in this rule.

(b) Class C operator training shall be conducted as follows:

(1) A certified Class A or Class B operator may provide training or may authorize training for a Class C operator employed at the UST system facility where the Class A or Class B operator is a designated operator. A Class A or Class B operator is not required to obtain approval from the department prior to providing training or authorizing training for a Class C operator.

(2) Trainers of Class C operators shall use instructional materials covering the topics listed in section 5(b)(5) and 5(d) of this rule.

(3) The trainer and the designated Class A or Class B operator shall sign a certification provided by the department online verifying that the Class C operator has been successfully trained by a qualified trainer and is certified for three (3) years from the date of the training.

(c) Class A, Class B, and Class C operators must receive full refresher training under the requirements of this rule and be recertified every three (3) years unless the provisions of section 8 of this rule apply. For Class A and Class B operators, retraining and recertification must be accomplished prior to the expiration of the certificate. For Class C operators, retraining and recertification must be accomplished prior to the expiration of the certification. (*Solid Waste Management Division; 329 IAC 9-9-6; filed Dec 18, 2012, 2:02 p.m.: 20130116-IR-329100066FRA*)

329 IAC 9-9-7 Certified operator records; inspections

Authority: IC 4-22-2; IC 13-14-8-4; IC 13-14-8-7; IC 13-19-3-1; IC 13-23-1-1; IC 13-23-1-3; IC 13-23-7-1

Affected: IC 13-23

Sec. 7. (a) Owners and operators shall maintain records identifying designated and certified Class A, Class B, and Class C operators of each UST system as required in 329 IAC 9-3-1(d).

(b) When requested by the department or at any inspection conducted by the state fire marshal, owners and operators of a facility or facilities containing a UST system shall provide a list of designated certified Class A, Class B, and Class C operators, as applicable for each facility.

(c) All records maintained under this section must include current contact information for each designated operator, including a telephone number and mailing address. (*Solid Waste Management Division; 329 IAC 9-9-7; filed Dec 18, 2012, 2:02 p.m.: 20130116-IR-329100066FRA*)

329 IAC 9-9-8 Failure to comply; operator retraining and recertification

Authority: IC 4-22-2; IC 13-14-8-4; IC 13-14-8-7; IC 13-19-3-1; IC 13-23-1-1; IC 13-23-1-3; IC 13-23-7-1

Affected: IC 13-23

Sec. 8. (a) If the UST system for which the operators are responsible is found, through a department on-site inspection or records inspection, to have one (1) or more than one (1) of the following deficiencies:

(1) failure to comply as defined in 329 IAC 9-1-19.5;

(2) failure to timely submit notifications under this article; or

(3) failure to maintain financial responsibility under this article;

the Class A, Class B, or Class C operator must go through retraining and be recertified when, in the judgment of the commissioner, the deficiencies demonstrate the need for retraining and recertification.

(b) The Class A, Class B, or Class C operator, if required by the department, must complete retraining and be recertified within thirty (30) days of notification by the department that the operator or operators must be retrained.

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(c) Failure to timely complete retraining will void the operator's certified status until the operator is retrained and recertified.

(d) An operator that is recertified under this section is recertified for a period of three (3) years, unless the provisions of this section apply. (*Solid Waste Management Division; 329 IAC 9-9-8; filed Dec 18, 2012, 2:02 p.m.: 20130116-IR-329100066FRA*)

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