

NOTICE OF INTENT

Department of Environmental Quality
Office of the Secretary
Legal Affairs Division

HW Tanks: Secondary Containment Requirements and 90 Day Turnover of Hazardous Waste
(LAC 33:V.109, 1109, 1901, 1907, 1909, and 4437) (HW106)

Under the authority of the Environmental Quality Act, R.S. 30:2001 et seq., and in accordance with the provisions of the Administrative Procedure Act, R.S. 49:950 et seq., the secretary gives notice that rulemaking procedures have been initiated to amend the Hazardous Waste regulations, LAC 33:V.109, 1109, 1901, 1907, 1909, and 4437 (HW106).

This Rule sets standards for the use of concrete as an external secondary containment system for hazardous waste tanks. It provides an approval process for using unlined/uncoated concrete as an external liner system under specific circumstances. The Rule also clarifies and adds an additional subsection to compliment the requirement of LAC 33:V.1909.D, relating to the subject "accumulation time" exemption from hazardous waste permitting requirements by using a flow-through calculation in certain situations. To provide clear standards in the regulation that will provide protection for the state's environment. This Rule meets an exception listed in R.S. 30:2019(D)(2) and R.S. 49:953(G)(3); therefore, no report regarding environmental/health benefits and social/economic costs is required.

This Rule has no known impact on family formation, stability, and autonomy as described in R.S. 49:972.

A public hearing will be held on April 28, 2010, at 1:30 p.m. in the Galvez Building, Oliver Pollock Conference Room, 602 N. Fifth Street, Baton Rouge, LA 70802. Interested persons are invited to attend and submit oral comments on these proposed regulations. Should individuals with a disability need an accommodation in order to participate, contact Donald Trahan at the address given below or at (225) 219-3985. Two hours of free parking are allowed in the Galvez Garage with a validated parking ticket.

All interested persons are invited to submit written comments on these proposed regulations. Persons commenting should reference these proposed regulations by (HW106). Such comments must be received no later than May 5, 2010, at 4:30 p.m., and should be sent to Donald Trahan, Attorney Supervisor, Office of the Secretary, Legal Affairs Division, Box 4302, Baton Rouge, LA 70821-4302 or to FAX (225) 219-3398 or by e-mail to donald.trahan@la.gov. Copies of these proposed regulations can be purchased by contacting the DEQ Public Records Center at (225) 219-3168. Check or money order is required in advance for each copy of HW106. These proposed regulations are available on the Internet at www.deq.louisiana.gov/portal/tabid/1669/default.aspx.

These proposed regulations are available for inspection at the following DEQ office locations from 8 a.m. until 4:30 p.m.: 602 N. Fifth Street, Baton Rouge, LA 70802; 1823 Highway 546, West Monroe, LA 71292; State Office Building, 1525 Fairfield Avenue, Shreveport, LA 71101; 1301 Gadwall Street, Lake Charles, LA 70615; 111 New Center Drive, Lafayette, LA 70508; 110 Baratavia Street, Lockport, LA 70374; 201 Evans Road, Bldg. 4, Suite 420, New Orleans, LA 70123.

Herman Robinson, CPM
Executive Counsel

Title 33
ENVIRONMENTAL QUALITY
Part V. Hazardous Waste and Hazardous Materials
Subpart 1. Department of Environmental Quality—Hazardous Waste
Chapter 1. General Provisions and Definitions

§109. Definitions

For all purposes of these rules and regulations, the terms defined in this Chapter shall have the following meanings, unless the context of use clearly indicates otherwise.

* * *

Batch Tank—a device meeting the definition of *tank* in this Section that receives a batch (or batches) of hazardous waste on a one-time or intermittent basis.

* * *

Continuous-Flow Tank—a device meeting the definition of *tank* in this Section that receives hazardous waste on an ongoing, continuous basis.

* * *

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 et seq.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Solid and Hazardous Waste, Hazardous Waste Division, LR 10:200 (March 1984), amended LR 10:496 (July 1984), LR 11:1139 (December 1985), LR 12:319 (May 1986), LR 13:84 (February 1987), LR 13:433 (August 1987), LR 13:651 (November 1987), LR 14:790, 791 (November 1988), LR 15:378 (May 1989), LR 15:737 (September 1989), LR 16:218, 220 (March 1990), LR 16:399 (May 1990), LR 16:614 (July 1990), LR 16:683 (August 1990), LR 17:362 (April 1991), LR 17:478 (May 1991), LR 18:723 (July 1992), LR 18:1375 (December 1992), repromulgated by the Office of Solid and Hazardous Waste, Hazardous Waste Division, LR 19:626 (May 1993), amended LR 20:1000 (September 1994), LR 20:1109 (October 1994), LR 21:266 (March 1995), LR 21:944 (September 1995), LR 22:814 (September 1996), LR 23:564 (May 1997), amended by the Office of Waste Services, Hazardous Waste Division, LR 24:655 (April 1998), LR 24:1101 (June 1998), LR 24:1688 (September 1998), LR 25:433 (March 1999), repromulgated LR 25:853 (May 1999), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 26:269 (February 2000), LR 26:2465 (November 2000), LR 27:291 (March 2001), LR 27:708 (May 2001), LR 28:999 (May 2002), LR 28:1191 (June 2002), LR 29:318 (March 2003); amended by the Office of the Secretary, Legal Affairs Division, LR 31:2452 (October 2005), LR 31:3116 (December 2005), LR 32:606 (April 2006), LR 32:822 (May 2006), LR 33:1625 (August 2007), LR 33:2098 (October 2007),

LR 34:71 (January 2008), LR 34:615 (April 2008), LR 34:1009 (June 2008), LR 34:1894 (September 2008), LR 34:2396 (November 2008), LR 36:

Chapter 11. Generators

Subchapter A. General

§1109. Pre-Transport Requirements

A-D. ...

E. Accumulation Time

1.-1.a.i.

ii. in tanks and the generator complies with the applicable requirements of LAC 33:V. ~~Chapter 43. Subchapters I, Q, R, and V, except LAC 33:V.4442 and 4445~~ 1901.D; and/or

E.1.a.iii-F.2. ...

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 et seq.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Solid and Hazardous Waste, Hazardous Waste Division, LR 10:200 (March 1984), amended LR 10:496 (July 1984), LR 13:433 (August 1987), LR 16:47 (January 1990), LR 16:220 (March 1990), LR 16:1057 (December 1990), LR 17:658 (July 1991), LR 18:1256 (November 1992), LR 18:1375 (December 1992), LR 20:1000 (September 1994), LR 20:1109 (October 1994), LR 21:266 (March 1995), amended by the Office of Waste Services, Hazardous Waste Division, LR 24:1693 (September 1998), LR 25:437 (March 1999), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 25:1466 (August 1999), LR 26:277 (February 2000), LR 26:2470 (November 2000), LR 27:293 (March 2001), LR 27:709, 716 (May 2001), LR 27:1014 (July 2001), LR 30:1673 (August 2004), amended by the Office of Environmental Assessment, LR 31:1571 (July 2005), amended by the Office of the Secretary, Legal Affairs Division, LR 32:823 (May 2006), LR 33:2102 (October 2007), LR 34:622 (April 2008), LR 36:

Chapter 19. Tanks

§1901. Applicability

A.-C. ...

D. Tanks meeting the requirements for the accumulation time exclusion of LAC 33:V.305.C and 1109.E.1 are subject to the requirements of LAC 33:V.1903.A, 1905.B-H, 1907.A, 1907.B-K, 1909, 1911, 1913, 1915.D, 1917, ~~and~~ 1919, and 1921.

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 et seq.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Solid and Hazardous Waste, Hazardous Waste Division, LR 10:200 (March 1984), amended LR 13:651 (November 1987), LR 16:614 (July 1990), LR 18:1375 (December 1992), LR 22:819 (September 1996), amended by the Office of Waste Services, Hazardous Waste Division, LR 24:1107 (June 1998), amended by the Office of the Secretary, Legal Affairs Division, LR 34:1013 (June 2008), LR 36:

§1907. Containment and Detection of Releases

A-D. ...

E. In addition to the requirements of Subsections B-D of this Section, secondary containment systems must satisfy the following requirements.

1. External liner systems must be:

a-b. ...

c. free of cracks or gaps; and

d. designed and installed to surround the tank completely and to cover all surrounding earth likely to come into contact with the waste if the waste is released from the tank(s); ~~(i.e., capable of preventing lateral as well as vertical migration of the waste)~~

e. impermeable to the extent that it will prevent lateral as well as vertical migration of waste into the environment (this is not intended to address releases to the air); and

f. if concrete is used as an external liner system:

i. the liner system must be:

(a). provided with a coating or lining that is compatible with the stored waste and meets the requirements of Subparagraph E.1.d.e of this Section except as specified in Clause E.1.f.ii and Subsection J of this Section;-

(b). constructed with chemical-resistant water stops in place at all joints (if any), in liner systems installed after [date of promulgation] and in liner systems undergoing significant modification after [date of promulgation]; and

(c). constructed with chemical-resistant joint sealants at all joints and cracks (if any).

ii. the owner or operator of a tank equipped with an uncoated/unlined concrete external liner system may demonstrate compliance with Subclause E.1.f.i.(a) of this Section by submitting the information described in Subsection J of this Section for review and obtaining written approval by the Office of Environmental Services.

2. Vault systems must be:

a-c. ...

d. constructed with chemical-resistant joint sealants at all joints and cracks (if any), in vault systems installed after [date of promulgation] and in vault systems undergoing significant modification after [date of promulgation] ;

ed. provided with an impermeable interior coating or lining that is compatible with the stored waste and that will prevent migration of waste into the concrete;

fe. provided with a means to protect against the formation of and ignition of vapors within the vault, if the waste being stored or treated:

i. meets any of the definitions of ignitable waste under LAC 33:V.4903.B; or

ii. meets the definition of reactive waste under LAC 33:V.4903.D, and may form an ignitable or explosive vapor; and

gf. provided with an exterior moisture barrier or be otherwise designed or operated to prevent migration of moisture into the vault if the vault is subject to hydraulic pressure.

E.3.-I.5 ...

J. Unlined/Uncoated Concrete Liner Systems—Demonstration of Sufficiency Process

1. Submittals to the Office of Environmental Services intended to secure its approval of uncoated/unlined concrete liner systems, as provided for in Clause E.1.f.ii of this Section, must contain documentation regarding the information described below.

a. The owner or operator must provide detailed information on the uncoated/unlined external liner, including, but not limited to:

i. the design and installation specifications for any concrete joints, including water stops;

ii. the characteristics of any joint sealant used, including its compatibility with the waste stored in the tank system; and

iii. the characteristics of the concrete mix used, the design and construction specifications of the concrete liner and secondary containment system, and any American Concrete Institute or other applicable standards used.

b. The owner or operator must also provide the following information:

i. the physical and chemical characteristics of the waste in the tank system, including its potential for migration and its compatibility with the unlined/uncoated concrete external liner system;

ii. the persistence and permanence of the potential adverse effects from a release of the waste constituents to the environment;

iii. the risk to human health and the environment posed by a potential release of the waste constituents contained in the tank to the soil or groundwater;

iv. any factor that specifically influences the potential mobility of the waste contained in the tank and its potential to migrate through the unlined/uncoated concrete external liner system to the environment;

v. any additional protections afforded by the design and construction of the tank system, such as tank liners, lined piping, welded flanges, double bottoms, and/or elevation of the tank above the unlined/uncoated concrete external liner; and

vi. any other information requested by the administrative authority.

2. Submittals may also contain other documentation demonstrating that an unlined/uncoated concrete external liner system is appropriate, such as documentation regarding the following:

a. any natural or man-made hydrogeological characteristic of the facility and surrounding land that affords a barrier to the migration of waste into the environment;

b. any applicable regulation or permit requirement, or standard, such as, for example:

i. any schedule of more frequent than normal internal inspection of the tank pursuant to appropriate standards (e.g. American Petroleum Institute (API), American Society of Mechanical Engineers (ASME), etc.);

ii. any schedule of more frequent than normal external inspection of the tank pursuant to appropriate standards (e.g. API, ASME, etc.);

iii. any certification by a registered professional engineers regarding the permeability of the concrete that comprises the concrete liner system; and

c. the cost of installing and maintaining an impermeable coating or lining versus the potential benefits to be derived therefrom.

3. In deciding whether to approve the use of an unlined/uncoated concrete external liner system in lieu of the requirements of Subclause E.1.f.i.(a) of this Section:

a. the administrative authority shall consider each submittal on its own merits;

b. the stringency of the administrative authority's requirements may vary depending on the tank's contents (e.g., the concentration or type of material involved); and

c. the administrative authority shall approve the use of an unlined/uncoated concrete external liner system if it reasonably determines that the unlined/uncoated concrete external liner system:

i. will prevent lateral and vertical migration of waste into the environment, or

ii. is otherwise appropriate based on the potential risk to human health and the environment.

4. Within thirty days after receipt of an administratively complete submittal pursuant to this Subsection, the department shall provide written acknowledgment to the owner or operator that the submittal is under consideration. Subclause E.1.f.i.(a) of this Section shall

not apply to the concrete external liner system while the administrative authority considers the owner's or operator's submittal. The administrative authority shall notify the owner or operator in writing of the administrative authority's approval or disapproval of the proposed use of an unlined/uncoated concrete external liner system. If the administrative authority does not approve the use of an unlined/uncoated concrete external liner system, it shall give the owner or operator a reasonable period of time to provide an appropriate coating or lining for the concrete external liner system, or another acceptable means of secondary containment.

5. If the use of an unlined/uncoated concrete external liner system is approved:

a. the owner or operator shall maintain on-site:

i. the written approval received from the administrative authority, or a legible copy thereof; and

ii. documentation sufficient to establish that any conditions upon which that approval was based are being fulfilled; and

b. the owner or operator shall provide written notification to the Office of Environmental Services of any change in the tank system, the service of the tank system, the concrete external liner system, the waste stored in the tank(s), or the information submitted by the owner or operator pursuant to Paragraph 1 or 2 of this Subsection that could result in a significant increase in the risk to human health or the environment posed by a potential release of waste constituents contained in the tank(s). Such notice shall be provided within fifteen days of the owner's or operator's discovery of any such change. The department thereafter may require the submittal of additional information by the owner or operator, and/or revoke the approval for the owner's or operator's continued use of the unlined/uncoated concrete external liner system.

K. Effective Date/Due Date

1. Subparagraph E.1.f of this Section shall be effective:

a. one year from [date of promulgation], for tanks meeting the requirements for the accumulation time exclusion of LAC 33:V.305.C.2 and 1109.E.1; and

b. 180 days from [date of promulgation], for tanks subject to permitting.

2. Submittals under Subsection J of this Section shall be due:

a. within one year from [date of promulgation], for tanks existing prior to this date and that meet the requirements for the accumulation time exclusion of LAC 33:V.305.C.2 and 1109.E.1;

b. within 180 days from [date of promulgation], for tanks existing prior to this date and that are subject to permitting;

c. prior to tank installation, for tanks and/or tank systems installed after [date of promulgation] that meet the requirements for the accumulation time exclusion of LAC 33:V.305.C and 1109.E.1;

d. contemporaneously with the submittal of the permit application, for new tanks and/or tank systems that are installed after [date of promulgation] and are subject to permitting; and

e. within such reasonable period of time as shall be established by the administrative authority upon request by the owner or operator, for any tank that is installed or undergoes a change in service within one year of [date of promulgation].

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 et seq.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Solid and Hazardous Waste, Hazardous Waste Division, LR 10:200 (March 1984), amended LR 13:651 (November 1987), LR 14:790 (November 1988), LR 16:614 (July 1990), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 26:2475 (November 2000), amended by the Office of Environmental Assessment, LR 31:1572 (July 2005), amended by the Office of the Secretary, Legal Affairs Division, LR 33:2107 (October 2007), LR 34:624 (April 2008), LR 34:995 (June 2008), LR 34:1896 (September 2008), LR 36:

§1909. General Operating Requirements

A.-C. ...

D. Owners or operators must provide documentation, maintained on-site, that batch tanks subject to the accumulation time exclusion of LAC 33:V.1109.E have been emptied and cleaned of all residues and/or sludges at least once in each 90-day period.

1. A batch tank is deemed emptied and cleaned for the purposes of this Subsection if it has been emptied to the maximum extent practicable and:

1.a-2. ...

E. Owners or operators must provide documentation, maintained on-site, that continuous-flow tanks subject to the accumulation time exclusion of LAC 33:V.1109.E have been emptied at least once in each 90-day period.

1. A continuous-flow tank is deemed emptied if the owner or operator can demonstrate, via a mass balance approach and appropriate documentation or methodology, that hazardous waste has not been stored therein for more than 90 days. The key parameters in the mass balance approach are the volume of the tank (e.g., 6,000 gallons), the daily throughput of the hazardous waste (e.g., 300 gallons per day), and the time period the hazardous waste “resides” in the tank. In this example, the hazardous waste would have a residence time of 20 days ((6,000 gallons/300 gallons per day) = 20 days) and would meet the requirements of LAC 33:V.1109.E since the hazardous waste has been in the tank for less than 90 days.

2. The documentation or methodology that is used by the owner or operator to confirm a continuous-flow tank’s compliance with Paragraph E.1 of this Section must be reasonable and easily discernible to the department.

3. A continuous-flow tank in which a significant amount of residue or sludge is accumulated may not qualify for the exclusion of LAC 33:V.1109.E. Therefore, the owner or operator of a continuous-flow tank for which that exclusion is claimed must ensure that

significant accumulation of residue or sludge does not occur in the tank by satisfying the requirements either of Subsection D of this Section (in which case the words “continuous-flow tank” shall be substituted for the words “batch tank” in each instance where “batch tank” appears in that Subsection), or of Paragraph E.4 of this Section.

4. The owner or operator must provide documentation, maintained on-site, establishing that significant accumulations of residue or sludge do not occur within the tank; i.e., almost all residues or sludges in the tank at the beginning of the 90-day period have been removed (or displaced by incoming waste or newly-formed residues or sludges) by the end of the 90th day. The determination of what constitutes “significant accumulation of residue or sludge” shall be made on a case-by-case basis. However, no significant accumulation of residues or solids shall be deemed to have occurred if the residues or sludges that accumulate in the tank constitute less than 5 percent by volume of the total tank capacity. To the extent that there is no significant accumulation of residue or sludge in the tank, the one-year storage prohibition under LAC 33:V.2205 shall not apply to any residue or sludge contained therein.

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 et seq.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Solid and Hazardous Waste, Hazardous Waste Division, LR 10:200 (March 1984), amended LR 13:651 (November 1987), LR 16:614 (July 1990), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 25:1804 (October 1999), amended by the Office of the Secretary, Legal Affairs Division, LR 36:

Chapter 43. Interim Status

Subchapter I. Tanks

§4437. Containment and Detection of Releases

A-D. ...

E. In addition to the requirements of Subsections B-D of this Section, secondary containment systems must satisfy the following requirements.

1. External liner systems must be:

a-b. ...

c. free of cracks or gaps; ~~and~~

d. designed and installed to completely surround the tank and cover all surrounding earth likely to come into contact with the waste if released from the tank(s); ~~(i.e., capable of preventing lateral as well as vertical migration of the waste).~~

e. impermeable to the extent that it will prevent lateral as well as vertical migration of waste into the environment (this is not intended to address releases to the air); and

f. if concrete is used as an external liner system:

i. the liner system must be:

(a). provided with a coating or lining that is compatible with the stored waste and meets the requirements of Subparagraph E.1.d.-e. of this Section, except as specified in Clause E.1.f.ii and Subsection J of this Section;

(b). constructed with chemical-resistant water stops in place at all joints (if any), in liner systems installed after [date of promulgation] and in liner systems undergoing significant upgrade after [date of promulgation]; and

(c). constructed with chemical-resistant joint sealants at all joints and cracks (if any).

ii. the owner or operator of a tank equipped with an uncoated/unlined concrete external liner system may demonstrate compliance with Subclause E.1.f.i.(a) of this Section by submitting the information described in Subsection J of this Section for review and obtaining written approval by the Office of Environmental Services.

2. Vault systems must be:

a.-c. ...

d. constructed with chemical-resistant joint sealants at all joints and cracks (if any), in vault systems installed after [date of promulgation] and in vault systems undergoing significant upgrade after [date of promulgation] ;

e. provided with an impermeable interior coating or lining that is compatible with the stored waste and that will prevent migration of waste into the concrete;

f. provided with a means to protect against the formation of and ignition of vapors within the vault, if the waste being stored or treated:

i. meets any of the definitions of ignitable waste under LAC 33:V.4903.B; or

ii. meets the definition of reactive waste under LAC 33:V.4903.D, and may form an ignitable or explosive vapor; and

g. provided with an exterior moisture barrier or be otherwise designed or operated to prevent migration of moisture into the vault if the vault is subject to hydraulic pressure.

E.3-I.4. ...

J. Unlined/Uncoated Concrete Liner Systems—Demonstration of Sufficiency Process.

1. Submittals to the Office of Environmental Services intended to secure its approval of uncoated/ unlined concrete liner systems, as provided for in Clause E.1.f.ii of this Section, must contain documentation regarding the information described below.

a. The owner or operator must provide detailed information on the uncoated/unlined external liner, including, but not limited to:

i. the design and installation specifications for any concrete joints, including water stops;

ii. the characteristics of any joint sealant used, including its compatibility with the waste stored in the tank system; and

iii. the characteristics of the concrete mix used, the design and construction specifications of the concrete liner and secondary containment system, and any American Concrete Institute or other applicable standards used.

b. The owner or operator must also provide the following information:

i. the physical and chemical characteristics of the waste in the tank system, including its potential for migration and its compatibility with the unlined/uncoated concrete external liner system;

ii. the persistence and permanence of the potential adverse effects from a release of the waste constituents to the environment;

iii. the risk to human health and the environment posed by a potential release of the waste constituents contained in the tank to the soil or groundwater;

iv. any factors that specifically influence the potential mobility of the waste contained in the tank and its potential to migrate through the unlined/uncoated concrete external liner system to the environment;

v. any additional protections afforded by the design and construction of the tank system; such as tank liners, lined piping, welded flanges, double bottoms, and/or elevation of the tank above the unlined/uncoated concrete external liner; and

vi. any other information requested by the administrative authority.

2. The submittal may also contain other documentation demonstrating that an unlined/uncoated concrete external liner system is appropriate, such as documentation regarding the following:

a. any natural or man-made hydrogeological characteristic of the facility and surrounding land that affords a barrier to the migration of waste into the environment;

b. any applicable regulation or permit requirement, or standard, such as, for example:

i. any schedule of more frequent than normal internal inspection of the tank pursuant to appropriate standards (e.g. American Petroleum Institute (API), American Society of Mechanical Engineers (ASME), etc.);

ii. any schedule of more frequent than normal external inspection of the tank pursuant to appropriate standards (e.g. API, ASME, etc.);

iii. any certification by a registered professional engineers regarding the permeability of the concrete that comprises the concrete liner system; and

c. the cost of installing and maintaining an impermeable coating or lining versus the potential benefits to be derived therefrom.

3. In deciding whether to approve the use of an unlined/uncoated concrete external liner system in lieu of the requirements of Subclause E.1.f.i.(a) of this Section:
- a. the administrative authority shall consider each submittal on its own merits;
 - b. the stringency of the administrative authority's requirements may vary depending on the tank's contents (e.g., the concentration or type of material involved); and
 - c. the administrative authority shall approve the use of an unlined/uncoated concrete external liner system if it reasonably determines that the unlined/uncoated concrete external liner system:
 - i. will prevent lateral and vertical migration of waste into the environment, or
 - ii. is otherwise appropriate based on the potential risk to human health and the environment.
4. Within thirty days after receipt of an administratively complete submittal pursuant to Subsection, the department shall provide written acknowledgment to the owner or operator that the submittal is under consideration. Subclause E.1.f.i.(a) of this Section shall not apply to the concrete external liner system while the administrative authority considers the owner's or operator's submittal. The administrative authority shall notify the owner or operator in writing of the administrative authority's approval or disapproval of the proposed use of an unlined/uncoated concrete external liner system. If the administrative authority does not approve the use of an unlined/uncoated concrete external liner system, it shall give the owner or operator a reasonable period of time to provide an appropriate coating or lining for the concrete external liner system, or another acceptable means of secondary containment.
5. If the use of an unlined/uncoated concrete external liner system is approved:
- a. the owner or operator shall maintain on-site:
 - i. the written approval received from the administrative authority, or a legible copy thereof; and
 - ii. documentation sufficient to establish that any conditions upon which that approval was based are being fulfilled; and
 - b. the owner or operator shall provide written notification to the Office of Environmental Services of any change in the tank system, the service of the tank system, the concrete external liner system, the waste stored in the tank(s), or the information submitted by the owner or operator pursuant to Paragraph 1 or 2 of this Section that could result in a significant increase in the risk to human health or the environment posed by a potential release of the waste constituents contained in the tank(s). Such notice shall be provided within fifteen days of the owner's or operator's discovery of any such change. The department thereafter may require the submittal of additional information by the owner or operator, and/or revoke the approval for the owner's or operator's continued use of the unlined/uncoated concrete external liner system.

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 et seq.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Solid and Hazardous Waste, Hazardous Waste Division, LR 10:200 (March 1984),

amended LR 13:651 (November 1987), LR 14:790 (November 1988), LR 16:614 (July 1990), LR 18:723 (July 1992), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 26:2507 (November 2000), amended by the Office of the Secretary, Legal Affairs Division, LR 31:2482 (October 2005), LR 33:2134 (October 2007), LR 34:1004 (June 2008), LR 34:1899 (September 2008), LR 36:

FISCAL AND ECONOMIC IMPACT STATEMENT
FOR ADMINISTRATIVE RULES

LOG #: HW106

Person Preparing Statement:	<u>Sharon Parker</u> <u>sharon.parker@la.gov</u> (email address)	Dept.:	<u>Environmental Quality</u>
Phone:	<u>225-219-3981</u>	Office:	<u>Secretary/Legal Affairs Division</u>
Return Address:	<u>P.O. Box 4302</u> <u>Baton Rouge, LA 70821</u>	Rule Title:	<u>Hazardous Waste Tanks: Amendments to Secondary containment and Flowthrough of 90 day exemption tanks (LAC 33:V.109, 1109, 1901, 1907, 1909, and 4437)</u>
		Date Rule Takes Effect:	<u>As stated in rule</u>

SUMMARY
(Use complete sentences)

In accordance with Section 953 of Title 49 of the Louisiana Revised Statutes, there is hereby submitted a fiscal and economic impact statement on the rule proposed for adoption, repeal or amendment. THE FOLLOWING STATEMENTS SUMMARIZE ATTACHED WORKSHEETS, I THROUGH IV AND WILL BE PUBLISHED IN THE LOUISIANA REGISTER WITH THE PROPOSED AGENCY RULE.

I. ESTIMATED IMPLEMENTATION COSTS (SAVINGS) TO STATE OR LOCAL GOVERNMENTAL UNITS (Summary)

Implementation of this Rule will not result in a cost or savings to state or local governmental units.

II. ESTIMATED EFFECT ON REVENUE COLLECTIONS OF STATE OR LOCAL GOVERNMENTAL UNITS (Summary)

There will be no effect on revenues of state or local governments.

III. ESTIMATED COSTS AND/OR ECONOMIC BENEFITS TO DIRECTLY AFFECTED PERSONS OR NON-GOVERNMENTAL GROUPS (Summary)

The petrochemical industry will be directly affected by the proposed rule. The proposed rule allows an alternative procedure which they can voluntarily participate in to avoid some of the cost of current regulation. Facility operators choosing to utilize the alternative process for secondary containment tank coatings could achieve savings estimated at \$250,000 to \$1 million dollars per tank depending on the surface square footage of the containment area, and the number and size of tanks in the containment area. Maintenance of these coatings is also very expensive, approximately \$100,000 minimum per maintenance cycle, and would also impact the savings to the facility that participates in the alternative process.

Facilities choosing to utilize continuous-flow tank procedures for the less than 90 day storage tanks could see a savings of \$80,000- \$120,000 per tank per year in maintenance cost with a higher level of savings in regards to safety of personnel that are required to enter the tanks to perform clean-out procedures of the tank.

IV. ESTIMATED EFFECT ON COMPETITION AND EMPLOYMENT (Summary)

There will be no effect on competition or employment as a result of the proposed rule.

Signature of Agency Head or Designee

Legislative Fiscal Officer or Designee

Herman Robinson, CPM, Executive Counsel
Typed Name and Title of Agency Head or Designee

Date of Signature

Date of Signature

FISCAL AND ECONOMIC IMPACT STATEMENT
FOR ADMINISTRATIVE RULES

The following information is requested in order to assist the Legislative Fiscal Office in its review of the fiscal and economic impact statement and to assist the appropriate legislative oversight subcommittee in its deliberation on the proposed rule.

- A. Provide a brief summary of the content of the rule (if proposed for adoption, or repeal) or a brief summary of the change in the rule (if proposed for amendment). Attach a copy of the notice of intent and a copy of the rule proposed for initial adoption or repeal (or, in the case of a rule change, copies of both the current and proposed rules with amended portions indicated).

The proposed rule sets standards for the use of concrete as an external secondary containment system for hazardous waste tanks. It provides an approval process for the use of unlined/uncoated concrete as an external liner system under specific circumstances. The proposed rule also clarifies and adds an additional subsection to complement the requirements of LAC 33:V.1909.D relating to the "accumulation time" exemption from hazardous waste permitting requirements by allowing the use of a flow-through calculation in certain situations.

- B. Summarize the circumstances which require this action. If the Action is required by federal regulation, attach a copy of the applicable regulation.

Ambiguity in regulatory language has resulted in inconsistent interpretation of how the secondary containment regulations for hazardous waste tanks are implemented as regards uncoated concrete liners. The language has been amended to reflect the intent of the federal regulations found in the preamble to 53 FR 34084 and the application of the rule in this state. This amendment allows flexibility in the regulation to recognize the different circumstances found in the real world. Participation by the regulated community in the development of the rule language allowed for the development of optional provisions for those wishing to use uncoated/unlined external concrete liner systems. Additionally, the turnover of waste management requirements in hazardous waste tanks, for those tanks subject to the "accumulation time" exemption of LAC 33:V.1109.E, has been amended to add a new management option (flow-through calculations for considering the tank emptied) in compliance with current policy issued by EPA

- C. Compliance with Act 11 of the 1986 First Extraordinary Session
(1) Will the proposed rule change result in any increase in the expenditure of funds? If so, specify amount and source of funding.

No increase in the expenditure of funds will result from implementation of this rule.

(2) If the answer to (1) above is yes, has the Legislature specifically appropriated the funds necessary for the associated expenditure increase?

- (a) ___ Yes. If yes, attach documentation.
- (b) ___ No. If no, provide justification as to why this rule change should be published at this time.

This question is not applicable.

FISCAL AND ECONOMIC IMPACT STATEMENT
WORKSHEET

I. A. COSTS OR SAVINGS TO STATE AGENCIES RESULTING FROM THE ACTION PROPOSED

1. What is the anticipated increase (decrease) in costs to implement the proposed action?

COSTS	FY09-10	FY10-11	FY11-12
PERSONAL SERVICES	0	0	0
OPERATING EXPENSES	0	0	0
PROFESSIONAL SERVICES	0	0	0
OTHER CHARGES	0	0	0
EQUIPMENT	0	0	0
TOTAL	0	0	0
MAJOR REPAIR & CONSTR	0	0	0
POSITIONS (#)	0	0	0

2. Provide a narrative explanation of the costs or savings shown in "A.1.", including the increase or reduction in workload or additional paperwork (number of new forms, additional documentation, etc.) anticipated as a result of the implementation of the proposed action. Describe all data, assumptions, and methods used in calculating these costs.

Implementation of this rule will not result in a cost or savings to state agencies. This rule provides an alternative procedure to an existing regulatory requirement which a regulated facility may voluntarily choose to participate in.

3. Sources of funding for implementing the proposed rule or rule change.

SOURCE	FY09-10	FY10-11	FY11-12
STATE GENERAL FUND	0	0	0
AGENCY SELF-GENERATED	0	0	0
DEDICATED	0	0	0
FEDERAL FUNDS	0	0	0
OTHER (Specify)	0	0	0
	0	0	0
TOTAL	0	0	0

4. Does your agency currently have sufficient funds to implement the proposed action? If not, how and when do you anticipate obtaining such funds?

The department has sufficient funding to implement the proposed rule.

B. COST OR SAVINGS TO LOCAL GOVERNMENTAL UNITS RESULTING FROM THE ACTION PROPOSED.

1. Provide an estimate of the anticipated impact of the proposed action on local governmental units, including adjustments in workload and paperwork requirements. Describe all data, assumptions and methods used in calculating this impact.

There will be no effect to local governments as a result of the proposed rule.

2. Indicate the sources of funding of the local governmental unit which will be affected by these costs or savings.

This question is not applicable.

FISCAL AND ECONOMIC IMPACT STATEMENT

WORKSHEET

II. EFFECT ON REVENUE COLLECTIONS OF STATE AND LOCAL GOVERNMENTAL UNITS

A. What increase (decrease) in revenues can be anticipated from the proposed action?

REVENUE INCREASE/DECREASE	FY09-10	FY10-11	FY11-12
STATE GENERAL FUND	0	0	0
AGENCY SELF-GENERATED	0	0	0
RESTRICTED FUNDS*	0	0	0
FEDERAL FUNDS	0	0	0
LOCAL FUNDS	0	0	0
TOTAL	0	0	0

*Specify the particular fund being impacted.

B. Provide a narrative explanation of each increase or decrease in revenues shown in "A." Describe all data, assumptions, and methods used in calculating these increases or decreases.

There will be no effect on revenues of state and local governments.

III. COSTS AND/OR ECONOMIC BENEFITS TO DIRECTLY AFFECTED PERSONS OR NONGOVERNMENTAL GROUPS

A. What persons or non-governmental groups would be directly affected by the proposed action? For each, provide an estimate and a narrative description of any effect on costs, including workload adjustments and additional paperwork (number of new forms, additional documentation, etc.), they may have to incur as a result of the proposed action.

The petrochemical industry will be directly affected by the proposed rule. The proposed rule allows an alternative procedure which they can voluntarily participate in to avoid some of the cost of current regulation. Facility operators choosing to utilize the alternative process for secondary containment tank coatings could achieve savings estimated at \$250,000 to \$1 million dollars per tank depending on the surface square footage of the containment area, and the number and size of tanks in the containment area. Maintenance of these coatings is also very expensive, approximately \$100,000 minimum per maintenance cycle, and would also impact the savings to the facility that participates in the alternative process.

Facilities choosing to utilize continuous-flow tank procedures for the less than 90 day storage tanks could see a savings of \$80,000-\$120,000 per tank per year in maintenance cost with a higher level of savings in regards to safety of personnel that are required to enter the tanks to perform clean-out procedures of the tank.

B. Also provide an estimate and a narrative description of any impact on receipts and/or income resulting from this rule or rule change to these groups.

There will be no impact on receipts and/or income as a result of the proposed rule. Savings for companies participating in the new processes set forth in this proposed rule will be significant.

IV. EFFECTS ON COMPETITION AND EMPLOYMENT

Identify and provide estimates of the impact of the proposed action on competition and employment in the public and private sectors. Include a summary of any data, assumptions and methods used in making these estimates.

There will be no effect on competition or employment as a result of the proposed rule.