ILHR 10

APPENDIX A

The material contained in this Appendix is for clarification only. The notes, illustrations, forms, etc., are numbered to correspond to the number of the rule as it appears in the text of the chapter.

A10.10 (4) (b) 2. and 3. DISPENSING EQUIPMENT PROGRAM CHECKLIST.

The following sample format of a dispensing equipment agreement form/training program satisfies the subject requirements:

STATE OF WISCONSIN/DILHR/FIRE PREVENTION SECTION PROGRAM CHECKLIST

The following information relates to training of persons who will operate the key, card or code dispensing devices in accordance with ch. ILHR 10 Flammable and Combustible Liquids Code, s. ILHR 10.10 (4) (b) 2. and 3.

CARDTROL OPERATING INSTRUCTIONS

1. Turn off engine and extinguish all smoking materials.
2. Insert key, card or code into reader unit.
3. When "Select Pump" light comes on, push button to select desired pump.
4. Remove key or card from reader. You now have 80 seconds to start fueling before unit "times out".
5. Remove nozzle from selected pump and turn lever on.
6. After fueling, turn pump lever off and replace nozzle on pump.

SAFETY INSTRUCTIONS AGREEMENT

1. Always turn off engine before fueling.
2. Never smoke or use open flame devices in vicinity of pumps.
3. Never dispense gasoline into a glass container. Use only red metal containers or UL listed or classified containers for gasoline.
4. Never dispense diesel fuel into a red container.
5. Familiarize yourself with the locations of the fire extinguisher and emergency electrical cutoff switch.
6. To use fire extinguisher, break glass to gain access.
7. Follow instructions on the use of the fire extinguisher.
8. To disconnect electric power to pumps, break glass and pull switch on emergency shutoff located on the building.
9. The emergency telephone number is conspicuously posted at the site and customer agrees to call this number in case of a spill or if any other hazardous condition is found to exist.

AGREEMENTS: (special provisions between owner and member) _____

_____

RESPONSIBILITY OF CUSTOMER: (use, payment, key-card control, etc.) _____

_____

I certify that I received the instructions and training necessary for operation of _____key, card or code dispensing unit.

Customer's signature_____Date_____

Company representative signature_____Date_____

A10.10 (6) APPLICATION FOR APPROVAL. The following form (SBD-9) is referred to in this section. Copies of this form are available from the Division of Safety and Buildings, P.O. Box 7969, Madison, Wisconsin 53707, or from the local fire department or authorized agent.

Department of Industry, Labor and Human Relations

FLAMMABLE LIQUID TANKS INSTALLATION APPLICATION

Safety & Buildings Division
P.O. Box 7969
201 E. Washington Avenue
Madison, WI 53707
(608) 267-9795

Personally identifiable information may be used for other purposes.

Application is made to the Department of Industry, Labor and Human Relations to (check all applicable boxes):

☐ Install tanks ☐ New install self service ☐ New install key-card-code ☐ Tank leak detection ☐ Line tanks
☐ Installation of piping ☐ Convert full service to self-service ☐ Convert to key-card-code ☐ Line leak detection
☐ Revise a plan ☐ Upgrade for spill protection ☐ Upgrade for overfill ☐ Upgrade corrosion protection

All work is to be done in accordance with the following detailed statement and attached plans subject to the orders of the Department of Industry, Labor and Human Relations. The installation, in all respects, will comply with applicable provisions of Chapter ILHR 10 of the Wisconsin Administrative Code (FLAMMABLE AND COMBUSTIBLE LIQUIDS)

DIRECTIONS:

Submit this form and four copies of the design and plot plan, along with the required fee to the address in the upper right corner of this page. The check is to be made out to: Safety & Buildings Division.

Each plan submittal must include a plot plan, drawn to scale (not smaller than 1" = 20') and showing (1) property lines, (2) buildings, (3) tanks, (4) piping, (5) load and unload racks OR pump islands, (6) streets and highways, (7) streams and bodies of water within 200 feet of tanks, (8) vehicular routes, (9) distances, (10) wells, (11) spill containment device, (12) overfill protection method, and(13) leak detection system to be used, including location of monitoring wells, if used. (If groundwater or vapor monitoring wells are used, data must be submitted to show that the installation complies with § 280.43 and 280.44.)

Two copies of the plans and a letter of conditional approval will be returned to you after approval.
When a tank is relined, the "Quality Control Tank Lining Compliance Report" must be submitted to the Division after the relining is complete.
A final inspection of the site must be performed by the local fire inspector or other authorized individual before the tank is covered and put into service.

LOCATION:

Owner/Operator		Establishment Name			
Street Address Where Tank Is Located	☐City ☐Village ☐Town of	County	State WI	Zip Code	
Fire Department Providing Fire Protection Coverage To Site Of Tank		Fire Department Identification Number (FDID #)			

TANK SPECIFICATIONS: (each tank)

	Horizontal	Vertical	Underground	Above Ground	Capacity	Contents	New	Used *	Gauge
1									
2									
3									
4									

* If used, indicate what manufacturer has recertified the tank(s):

Size Of Fill Pipe:

Size And Height Of Vent ___ X ___

Is pump motor explosion proof? ☐ Yes ☐ No

Are pump switches explosion proof? ☐ Yes ☐ No

Are bonds and grounding provided at load/unload racks? ☐ Yes ☐ No

What type of overfill protection is provided? Also indicate manufacturer and model number:

What type of spill containment device? Also indicate manufacturer and model number:

UNDERGROUND TANKS:

Distance Buried: The tank is ☐Steel ☐Fiberglass ☐Other (specify)-

Approval: ☐Nat'l Std ☐UL ☐Other: Doubled walled? ☐ Yes ☐ No

	Tank Capacity	How Many Anodes (if steel tank)?	Size Of Anodes	Specify: Dielectric Union Or Isolation Bushing	Name Of Approved Tank Coating
1				☐ DU ☐ IB	
2				☐ DU ☐ IB	
3				☐ DU ☐ IB	
4				☐ DU ☐ IB	

TANK LEAK DETECTION METHOD (location of all monitoring wells and/or monitors must be shown on plans)

☐ Automatic tank gauging ☐ Vapor monitoring ☐ Groundwater monitoring ☐ Interstitial monitoring
☐ Inventory control and tightness testing (every 5 years for 10 years) ☐ Manual Tank Gauging (only for tanks of 1,000 gallons or less)

PIPING:

The piping is ☐Steel ☐Fiberglass ☐Other (specify)- Approval: ☐Nat'l ☐UL ☐Other: Doubled walled? ☐Yes ☐No

Corrosion protection for steel piping provided by: ☐ Cathodic protection ☐ Impressed current

Pipes coated? ☐ Yes ☐ No Name of approved coating (identify):

SBD-9 (R.01/94)

- CONTINUE ON REVERSE SIDE -

PIPING (continued):

Indicate whether ☐ Pressurized ☐ Suction with check valve at tank ☐ Suction with check valve inspectable directly below pump at dispenser
If pressurized piping, indicate if ☐ Alarm ☐ Flow restrictor ☐ Auto shutoff Provide Model _____

PIPING LEAK DETECTION METHOD (location of all monitoring wells and/or monitors must be shown on plans)

If pressurized or check valve at tank, indicate leak detection method used ☐ Vapor monitor ☐ Interstitial monitoring ☐ Groundwater monitoring ☐ Tightness testing ☐ Line Leak Detector

ABOVE GROUND TANKS:

Regular Vent Pressure/Vacuum	Make	Model Number	Size	CFH
Emergency Relief Vent	Make	Model Number	Size	CFH
Emergency Internal Valve	Make	Model Number	Size	

Diking provided? ☐ Yes ☐ No If no, provide tank material approval no.: _____	Remote Impounding? ☐ Yes ☐ No	Are the dike walls and base impervious? Walls: ☐ Yes ☐ No Base: ☐ Yes ☐ No	Specify distance between tanks:

VERTICAL TANKS - LIST THICKNESS OF METAL:

1.	Bottom	Top	Shell - Lower Course	Remainder	4.	Bottom	Top	Shell - Lower Course	Remainder
2.	Bottom	Top	Shell - Lower Course	Remainder	5.	Bottom	Top	Shell - Lower Course	Remainder
3.	Bottom	Top	Shell - Lower Course	Remainder	6.	Bottom	Top	Shell - Lower Course	Remainder

FEES - ILHR - 2:

Installation Or Lining	No. Of Tanks		Cost		Sub Total
Plan Examination - 1st Tank System or Component ...	1	X	$ 35.00	= $	35.00
2nd thru 10th System/Component, $10.00 ea. ..... (Maximum charge = $150.00 for 11 or more)		X	$ 10.00	= +	
Total Plan Examination Fees			TOTAL	= $	
Site Inspection - $50.00 for each tank system or Component ..... ($100.00 minimum fee; $1700.00 maximum fee)		X	$ 50.00	= $	
Line Tanks (includes inspection fee)	Per Submission	X	$ 65.00	= $	
New Construction/Conversion To Self Service, Key-Card-Code	Per Submission	X	$ 78.00	= $	
Addition Or Upgrade For Leak Detection; Spill Protection; Overfill Protection; Corrosion Protection					
Plan Examination			$22.00	= $	
Site Inspection			$43.00	= $	
REVISION OF PREVIOUSLY APPROVED PLAN - *NUMBER:* _____			$22.00	= $	
GROUNDWATER SURCHARGE (Wis. Stat. 101.14 (5))				= $	100.00 *
* Not required for spill, overfill, leak detection, corrosion protection reviews or plan revisions			TOTAL FEE	= $	

WHERE SHOULD PLAN APPROVALS BE SENT?

☐ Owner/Operator ☐ Certified Installer	Name
Street Address	City, State, Zip Code

CERTIFICATION:

I certify by signature that provisions of the current Flammable and Combustible Liquids Code, 40 CFR Part 280, and all required well set backs (DNR), listed or not listed on this document, will be complied with.

Signature	Date Signed
Print Name	Telephone Number

A10.125 WISCONSIN BUILDING MATERIAL APPROVAL APPLICATION. The following form (SBD-8028) is referred to in this section. Copies of this form are available from the Division of Safety and Buildings, P.O. Box 7969, Madison, Wisconsin 53707.

Wisconsin Department of Industry, Labor and Human Relations

WISCONSIN MATERIAL APPROVAL APPLICATION

Safety and Buildings Division
P.O. Box 7969
Madison, WI 53707
(608) 266-1542

INSTRUCTIONS: One application form per material approval. Type or print clearly. Make checks payable to: Safety and Buildings Division. Send application, fee and any additional information to address shown in top right corner.

1. Submitting Party Information	2. Manufacturer Information
Applicant Company Name:	Manufacturer Name (if same as applicant, write "same"):
Applicant Address:	Manufacturer Address:
City, State, Zip Code:	City, State, Zip Code:
Contact Person and Telephone Number:	Contact Person and Telephone Number:

3. Product information

Product (e.g., Concrete Block, Metal Building, etc.):	Trade Name

Description And Use of Material (attach additional sheets if necessary):

Submittal Type And Fee (check type and submit fee):

- ☐ New Approval $800.00
- ☐ Renewal, With Changes $800.00
- ☐ Renewal, No Changes ..... $600.00 (new 5-year period)
- ☐ Minor Revision At Manufacturer's Request ..... $200.00 (no extension of approval period)
- ☐ Major Revision At Manufacturer's Request $800.00

Current Approval Number, If Any:

Wisconsin Code Sections Under Which Approval Is Requested (if known):

Determination of approval will be based on evidence which shows that the material performs in a manner which is equal or superior to the material required by the code sections listed above.

PUBLIC RECORDS: Department files and records may be subject to public inspection and copying unless they are designated as containing trade secrets. Do you wish your documents to be so designated?
☐ Yes ☐ No

I affirm that the information submitted with this application is, to my knowledge and understanding, correct.

Applicant's Signature: _____ Date Signed: _____

SBD-8028 (R. 06/92)

A10.13 NEW AND REPLACEMENT TANK REGISTRATION. The following forms (SBD-9, SBD-8731 and SBD-7437) are referred to in this section. Copies of these forms are available from the Division of Safety and Buildings, P.O. Box 7969, Madison, Wisconsin 53707, or from the local fire department or authorized agent.

Department of Industry, Labor and Human Relations

FLAMMABLE LIQUID TANKS INSTALLATION APPLICATION

Safety & Buildings Division
P.O. Box 7969
201 E. Washington Avenue
Madison, WI 53707
(608) 267-9795

Personally identifiable information may be used for other purposes.

Application is made to the Department of Industry, Labor and Human Relations to (check all applicable boxes):

☐ Install tanks ☐ New install self service ☐ New install key-card-code ☐ Tank leak detection ☐ Line tanks
☐ Installation of piping ☐ Convert full service to self-service ☐ Convert to key-card-code ☐ Line leak detection
☐ Revise a plan ☐ Upgrade for spill protection ☐ Upgrade for overfill ☐ Upgrade corrosion protection

All work is to be done in accordance with the following detailed statement and attached plans subject to the orders of the Department of Industry, Labor and Human Relations. The installation, in all respects, will comply with applicable provisions of Chapter ILHR 10 of the Wisconsin Administrative Code (FLAMMABLE AND COMBUSTIBLE LIQUIDS)

DIRECTIONS:

Submit this form and four copies of the design and plot plan, along with the required fee to the address in the upper right corner of this page. The check is to be made out to: Safety & Buildings Division.

Each plan submittal must include a plot plan, drawn to scale (not smaller than 1" = 20') and showing (1) property lines, (2) buildings, (3) tanks, (4) piping, (5) load and unload racks OR pump islands, (6) streets and highways, (7) streams and bodies of water within 200 feet of tanks, (8) vehicular routes, (9) distances, (10) wells, (11) spill containment device, (12) overfill protection method, and(13) leak detection system to be used, including location of monitoring wells, if used. (If groundwater or vapor monitoring wells are used, data must be submitted to show that the installation complies with § 280.43 and 280.44.)

Two copies of the plans and a letter of conditional approval will be returned to you after approval.
When a tank is relined, the "Quality Control Tank Lining Compliance Report" must be submitted to the Division after the relining is complete.
A final inspection of the site must be performed by the local fire inspector or other authorized individual before the tank is covered and put into service.

LOCATION:

Owner/Operator		Establishment Name			
Street Address Where Tank Is Located	☐ City ☐ Village ☐ Town of	County	State WI	Zip Code	
Fire Department Providing Fire Protection Coverage To Site Of Tank		Fire Department Identification Number (FDID #)			

TANK SPECIFICATIONS: (each tank)

	Horizontal	Vertical	Underground	Above Ground	Capacity	Contents	New	Used *	Gauge
1									
2									
3									
4									

* If used, indicate what manufacturer has recertified the tank(s):

Size Of Fill Pipe:

Size And Height Of Vent
X

Is pump motor explosion proof? ☐ Yes ☐ No

Are pump switches explosion proof? ☐ Yes ☐ No

Are bonds and grounding provided at load/unload racks? ☐ Yes ☐ No

What type of overfill protection is provided? Also indicate manufacturer and model number:

What type of spill containment device? Also indicate manufacturer and model number:

UNDERGROUND TANKS:

Distance Buried: The tank is ☐ Steel ☐ Fiberglass ☐ Other (specify) -

Approval: ☐ Nat'l Std ☐ UL ☐ Other: Doubled walled? ☐ Yes ☐ No

	Tank Capacity	How Many Anodes (if steel tank)?	Size Of Anodes	Specify: Dielectric Union Or Isolation Bushing	Name Of Approved Tank Coating
1				☐ DU ☐ IB	
2				☐ DU ☐ IB	
3				☐ DU ☐ IB	
4				☐ DU ☐ IB	

TANK LEAK DETECTION METHOD (location of all monitoring wells and/or monitors must be shown on plans)

☐ Automatic tank gauging ☐ Vapor monitoring ☐ Groundwater monitoring ☐ Interstitial monitoring
☐ Inventory control and tightness testing (every 5 years for 10 years) ☐ Manual Tank Gauging (only for tanks of 1,000 gallons or less)

PIPING:

The piping is ☐ Steel ☐ Fiberglass ☐ Other (specify) - Approval: ☐ Nat'l ☐ UL ☐ Other: Doubled walled? ☐ Yes ☐ No

Corrosion protection for steel piping provided by: ☐ Cathodic protection ☐ Impressed current

Pipes coated? ☐ Yes ☐ No Name of approved coating (identify):

SBD-9 (R. 01/94)

- CONTINUE ON REVERSE SIDE -

PIPING (continued):

Indicate whether ☐ Pressurized ☐ Suction with check valve at tank ☐ Suction with check valve inspectable directly below pump at dispenser
If pressurized piping, indicate if ☐ Alarm ☐ Flow restrictor ☐ Auto shutoff Provide Model _____

PIPING LEAK DETECTION METHOD (location of all monitoring wells and/or monitors must be shown on plans)

If pressurized or check valve at tank, indicate leak detection method used ☐ Vapor monitor ☐ Interstitial monitoring ☐ Groundwater monitoring ☐ Tightness testing ☐ Line Leak Detector

ABOVE GROUND TANKS:

Regular Vent Pressure/Vacuum	Make	Model Number	Size	CFH
Emergency Relief Vent	Make	Model Number	Size	CFH
Emergency Internal Valve	Make	Model Number	Size	

Diking provided? ☐ Yes ☐ No If no, provide tank material approval no.: _____	Remote Impounding? ☐ Yes ☐ No	Are the dike walls and base impervious? Walls: ☐ Yes ☐ No Base: ☐ Yes ☐ No	Specify distance between tanks:

VERTICAL TANKS - LIST THICKNESS OF METAL:

1.	Bottom	Top	Shell - Lower Course	Remainder	4.	Bottom	Top	Shell - Lower Course	Remainder
2.	Bottom	Top	Shell - Lower Course	Remainder	5.	Bottom	Top	Shell - Lower Course	Remainder
3.	Bottom	Top	Shell - Lower Course	Remainder	6.	Bottom	Top	Shell - Lower Course	Remainder

FEES - ILHR - 2:

Installation Or Lining	No. Of Tanks		Cost		Sub Total
Plan Examination - 1st Tank System or Component ...	1	X	$ 35.00	=	$ 35.00
2nd thru 10th System/Component, $10.00 ea. ..... (Maximum charge = $150.00 for 11 or more)	_____	X	$ 10.00	=	+
Total Plan Examination Fees			TOTAL	=	$
Site Inspection - $50.00 for each tank system or Component ..... ($100.00 minimum fee; $1700.00 maximum fee)	_____	X	$ 50.00	=	$
Line Tanks (includes inspection fee)	Per Submission	X	$ 65.00	=	$
New Construction/Conversion To Self Service, Key-Card-Code	Per Submission	X	$ 78.00	=	$

Addition Or Upgrade For Leak Detection; Spill Protection; Overfill Protection; Corrosion Protection

Plan Examination	$22.00	=	$
Site Inspection	$43.00	=	$
REVISION OF PREVIOUSLY APPROVED PLAN - *NUMBER:* _____	$22.00	=	$
GROUNDWATER SURCHARGE (Wis. Stat. 101.14 (5))		=	$ 100.00 *
* Not required for spill, overfill, leak detection, corrosion protection reviews or plan revisions	TOTAL FEE	=	$

WHERE SHOULD PLAN APPROVALS BE SENT?

☐ Owner/Operator ☐ Certified Installer	Name
Street Address	City, State, Zip Code

CERTIFICATION:

I certify by signature that provisions of the current Flammable and Combustible Liquids Code, 40 CFR Part 280, and all required well set backs (DNR), listed or not listed on this document, will be complied with.

Signature	Date Signed
Print Name	Telephone Number

Wisconsin Department of Industry, Labor and Human Relations

For Office Use Only:
Tank ID #

ABOVEGROUND
PETROLEUM PRODUCT TANK INVENTORY

Send Completed Form To:
Safety & Buildings Division
P.O. Box 7969
Madison, WI 53707
Telephone (608) 267-5280

This form must be completed pursuant to s. 101.142, Wis. Stats., to register an above ground petroleum product storage system. An aboveground petroleum product storage system is an aboveground tank, used to store petroleum products, together with an on-site integral piping or dispensing system. Not included are pipeline facilities, tanks of 110 gallons or less capacity, farm and residential tanks of 1,100 gallons or less capacity, tanks used for storing heating oil for consumptive use on the premises where stored or tanks owned by the state or federal government. **A separate form is needed for each tank. Send each completed form to the address in the top right corner.**

This registration applies to a tank that is (check one):
1 ☐ In Use
2 ☐ Out of Service With Product
3 ☐ Out of Service With No Product (Empty)
4. ☐ Closed - Tank Removed
5. ☐ Closed - Tank Cleaned
6. ☐ Changed Ownership (Indicate new owner in section A. 3. below)

Fire Department Providing Fire Coverage Where Tank Is Located:
☐ City ☐ Village ☐ Town of: _____

A. IDENTIFICATION (Please Print)

1 Tank Site Name | Site Address | Site Telephone Number ( )

☐ City ☐ Village ☐ Town of: | State | Zip Code | County

2 Owner Name (mail sent here unless indicated otherwise in #3) | Owner Mailing Address (mail sent here unless indicated otherwise in #3)

☐ City ☐ Village ☐ Town of: | State | Zip Code | County

3 Alternate Mailing Name If Different Than #2 | Alternate Mailing Street Address If Different Than #2

☐ City ☐ Village ☐ Town of: | State | Zip Code | County

4 Tank Age (date installed, if new; years old, if used) | 5. Tank Capacity (gal.) | 6. Tank Manufacturer's Name (if known)

7 If more than 1 tank is being reported at a facility, provide an 8 1/2 x 11 plot plan drawn to scale (1" = 20 ft.), numbering and indicating the location of the tanks being reported. If a plot plan is being submitted, this form is for tank number:

B. TYPE OF USER (check one):

1 ☐ Gas Station (any resale) 2. ☐ Bulk Storage 3. ☐ Utility 4. ☐ Mercantile / Commercial
5 ☐ Industrial 6 ☐ Government 7. ☐ School 8. ☐ Residential
9 ☐ Agricultural 10. ☐ Other (specify): _____

C. TANK CONSTRUCTION (check one):

1 ☐ Bare Steel 2 ☐ FRP Clad Steel 3. ☐ Steel With Lining 4. ☐ Concrete
5 ☐ Other (specify): _____

Tank is built to: ☐ National Standard _____ or ☐ UL Approval or ☐ Other _____

D. ROOF (Check one):

1 ☐ Fixed Roof 2 ☐ Floating External 3. ☐ Floating Internal 4. ☐ Other _____

E. TANK BASE:

1 ☐ On Ground 2. ☐ On Supports 3. ☐ On Cement 4. ☐ On Liner
5 ☐ Double Bottom 6. ☐ Other _____

F. PIPING: ☐ Aboveground ☐ Underground ☐ Both

Above Ground Piping Construction: ☐ Steel ☐ Other _____

Underground Piping Construction:
1 ☐ Bare Steel 2 ☐ Cathodically Protected and coated or Wrapped Steel (a. ☐ Sacrificial Anodes or b. ☐ Impressed Current) 3. ☐ Coated Steel
4 ☐ Fiberglass 5. ☐ Other (specify): _____ 6. ☐ Unknown

G. CONTAINMENT:

Dike Side Material: 1 ☐ Block 2. ☐ Concrete 3. ☐ Earth 4. ☐ Synthetic 5. ☐ Double Wall _____ (Material Approval #)

Dike Base Material: 1 ☐ Concrete 2. ☐ Engineered Clay - Thickness _____ 3. ☐ Earth 4. ☐ Synthetic - Make & Model #: _____

Remote Impounding? ☐ Yes ☐ No

H. DISTANCE FROM DIKE WALL TO NEAREST:

1 Well _____ Ft. 2. Property Line _____ Ft. 3. Surface Water _____ Ft. 4. Nearest Building On Property _____ Ft.

I. TANK CONTENTS

1 ☐ Diesel 2 ☐ Leaded 3. ☐ Unleaded 4. ☐ Fuel Oil
5 ☐ Gasohol 6. ☐ Other 7. ☐ Empty 9. ☐ Unknown
10 ☐ Premix 11 ☐ Waste Oil 13. ☐ Chemical * _____ _____ _____
14 ☐ Kerosene 15 ☐ Aviation

* If # 13 is checked, indicate the chemical name(s) or number(s) of the chemical or waste.

If Tank Was Removed or Cleaned For Other Use, Give Date (mo/day/yr):	Owner's Signature:	Date Signed:

The information you provide may be used by other agency programs [Privacy Law, s. 15.04(1)(m)].

SBD 8731 (R. 02/94)

Wisconsin Department of Industry, Labor and Human Relations

For Office Use Only:
Tank ID #

UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY

Information Required By Sec. 102.142, Wis. Stats.

Send Completed Form To:
Safety & Buildings Division
P.O. Box 7969
Madison, WI 53707
Telephone: (608) 267-5280

Underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances must be registered. Please see the reverse side for additional information on this program. An underground storage tank is defined as any tank with at least 10 percent of its total volume (included piping) located below ground level. A separate form is needed for each tank. Send each completed form to the agency designated in the top right corner. Have you previously registered this tank by submitting a form? ☐ YES ☐ NO If yes, are you correcting/updating information only? ☐ Yes ☐ No

The information you provide may be used by other government agency programs [Privacy Law, s. 15.04 (1) (m)].

This registration applies to a tank that is (check one):
1A. ☐ In Use or 1B. ☐ Newly Installed
2. ☐ Abandoned With Product
3. ☐ Abandoned No Product (empty) or With Water
4. ☐ Closed - Tank Removed
6. ☐ Closed - Filled With Inert Material
7. ☐ Out of Service - Provide Date: _____
8. ☐ Changed Ownership (Indicate new owner below)

Fire Department Providing Fire Coverage Where Tank Located:

A. IDENTIFICATION: (Please Print)

1. Tank Site Name | Site Address | Site Telephone No. ( )

☐ City ☐ Village ☐ Town of: | State | Zip Code | County

2. Owner Name (mail sent here unless indicated otherwise in #3 below) | Owner Mailing Address (mail sent here unless indicated otherwise in #3)

☐ City ☐ Village ☐ Town of: | State | Zip Code | County

3. Alternate Mailing Name If Different Than #2 | Alternate Mailing Street Address If Different From #2

☐ City ☐ Village ☐ Town of: | State | Zip Code | County

4. Tank Age (date installed, if known: or years old) | 5. Tank Capacity (gallons) | 6. Tank Manufacturer's Name (if known)

B. TYPE OF USER (check one):
1. ☐ Gas Station 2. ☐ Bulk Storage 3. ☐ Utility 4. ☐ Mercantile
5. ☐ Industrial 6. ☐ Government 7. ☐ School 8. ☐ Residential
9. ☐ Agricultural 10. ☐ Other (specify): _____

C. TANK CONSTRUCTION:
1. ☐ Bare Steel 2. ☐ Cathodically Protected and Coated Steel (A. ☐ Sacrificial Anodes or B. ☐ Impressed Current)
3. ☐ Coated Steel 4. ☐ Fiberglass 5. ☐ Other (specify): _____
6. ☐ Relined - Date _____ 7. ☐ Steel - Fiberglass Reinforced Plastic Composite 9. ☐ Unknown

Approval: 1. ☐ Nat'l Std. 2. ☐ UL 3. ☐ Other: | Is Tank Double Walled? ☐ Yes ☐ No

Overfill Protection Provided? ☐ Yes ☐ No If yes, identify type: | Spill Containment? ☐ Yes ☐ No

Tank leak detection method: 1. ☐ Automatic tank gauging 2. ☐ Vapor monitoring 3. ☐ Groundwater monitoring 4. ☐ Inventory control and tightness testing 5. ☐ Interstitial monitoring 6. ☐ Not required at present 7. ☐ Manual Tank Gauging (only for tanks of 1,000 gallons or less)

D. PIPING CONSTRUCTION
1. ☐ Bare Steel 2. ☐ Cathodically Protected and Coated or Wrapped Steel (A. ☐ Sacrificial Anodes or B. ☐ Impressed Current) 3. ☐ Coated Steel
4. ☐ Fiberglass 5. ☐ Other (specify): _____ 9. ☐ Unknown

Piping System Type: 1. ☐ Pressurized piping with: A. ☐ auto shutoff; B. ☐ alarm; or C. ☐ flow restrictor 2. ☐ Suction piping with check valve at tank
3. ☐ Suction piping with check valve at pump and inspectable

Piping leak detection method: used if pressurized or check valve at tank: 1. ☐ Vapor monitoring 2. ☐ Interstitial monitoring
3. ☐ Groundwater monitoring 4. ☐ Tightness testing 5. ☐ Line Leak Detector 6. ☐ Not Required

Approval: 1. ☐ Nat'l Std 2. ☐ UL 3. ☐ Other: | Double Walled: ☐ Yes ☐ No

E. TANK CONTENTS
1. ☐ Diesel 2. ☐ Leaded 3. ☐ Unleaded 4. ☐ Fuel Oil
5. ☐ Gasohol 6. ☐ Other 7. ☐ Empty 8. ☐ Sand/Gravel/Slurry
9. ☐ Unknown 10. ☐ Premix 11. ☐ Waste Oil 12. ☐ Propane
13. ☐ Chemical * _____ _____ _____ 14. ☐ Kerosene 15. ☐ Aviation

* If # 13 is checked, indicate the chemical name(s) or number(s) of the chemical or waste.

If Tank Closed, Give Date (mo/day/yr): | Has a site assessment been completed? (see reverse side for details) ☐ Yes ☐ No

If installation of a new tank is being reported, indicate who performed the installation inspection:
1. ☐ Fire Department 2. ☐ DILHR 3. ☐ Other (identify) _____

Name of Owner or Operator (please print): | Indicate Whether: ☐ Owner or ☐ Operator

Signature of Owner or Operator: | Date Signed:

SBD-7437 (R. 05/94) **IMPORTANT:** Complete as many items on this form as possible. Failure to provide sufficient information may cause you to fall under additional regulations.

BACKGROUND FOR TANK INVENTORY

On May 4, 1984, legislation commonly known as the Ground Water Protection Act was signed into law. This legislation required the creation of an inventory of underground petroleum product storage tanks. A record of this information was necessitated by numerous reported incidents of ground water contamination by petroleum products. Many tanks have been installed, used and forgotten. These installations can threaten the ground water.

This underground tank inventory is being established to help identify the need for future actions required to clear up potential problems before they occur. Your help in identifying abandoned, "In use"and "new use" tank locations will greatly assist this effort to protect Wisconsin's ground water.

SITE ASSESSMENT INFORMATION

Requirements for a site assessment at the closure or change in service for a federally regulated underground storage tank were outlined in federal rules published in the September 23,1988 Federal Register, 40 CFR 280 and 281.

The requirements in § 280.72 state:

> (a) Before permanent closure or a change-in-service is completed, owners and operators must measure for the presence of a release where contamination is most likely to be present at the UST site. In selecting sample types, sample locations, and measurement methods, owners and operators must consider the method of closure, the nature of the stored substance, the type of backfill, the depth to ground water, and other factors appropriate for identifying the presence of a release. The requirements of this section are satisfied if one of the external release detection methods allowed in § 280.43 (e) and (f) is operating in accordance with the requirements in § 280.43 at the time of closure, and indicates no release has occurred.

The external release detection methods in § 280.43 (e) and (f) are summarized below:

> "(e) *Vapor monitoring."* This sub section refers to the testing or monitoring for vapors within the soil gas of the tank's excavation zone. It further requires seven (7) conditions to be met to qualify the testing program as a valid vapor monitoring system.
>
> *"(f) Ground-water monitoring."* This sub section refers to the testing or monitoring for liquids on the ground water below the tank. It establishes the requirements for an acceptable system that effectively monitors the ground water for the presence of regulated substances and insures the integrity of the monitoring wells so the wells themselves do not become conduits for ground water contamination.

Complete written guidelines on the conduct of a site assessment can be obtained from the DILHR Bureau of Petroleum Inspection & Fire Protection at the following address:

Bureau of Petroleum Inspection and Fire Protection
P.O. Box 7969
Madison, WI 53707

Site assessments are to be submitted to both the DILHR office and to the DNR at the following addresses:

Bureau of Petroleum Inspection & Fire Protection
P.O. Box 7969
Madison, WI 53707

Bureau of Solid and Hazardous Waste Management
P.O. Box 7921
Madison, WI 53707

A10.14 EXISTING TANK REGISTRATION. The following forms (SBD-7437, SBD-8731 and SBD-7658) are referred to in this section. Copies of these forms are available from the Division of Safety and Buildings, P.O. Box 7969, Madison, Wisconsin 53707, or from the local fire department or authorized agent.

Wisconsin Department of Industry, Labor and Human Relations

For Office Use Only:
Tank ID #

UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY
Information Required By Sec. 102.142, Wis. Stats.

Send Completed Form To:
Safety & Buildings Division
P.O. Box 7969
Madison, WI 53707
Telephone: (608) 267-5280

Underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances must be registered. Please see the reverse side for additional information on this program. An underground storage tank is defined as any tank with at least 10 percent of its total volume (included piping) located below ground level. A separate form is needed for each tank. Send each completed form to the agency designated in the top right corner. Have you previously registered this tank by submitting a form? ☐ YES ☐ NO If yes, are you correcting/updating information only? ☐ Yes ☐ No
The information you provide may be used by other government agency programs [Privacy Law, s. 15.04 (1) (m)].

This registration applies to a tank that is (check one):
1A ☐ In Use or 1B. ☐ Newly Installed 4. ☐ Closed - Tank Removed 8. ☐ Changed Ownership
2. ☐ Abandoned With Product 6. ☐ Closed - Filled With (indicate new owner
3. ☐ Abandoned No Product (empty) Inert Material below)
or With Water 7. ☐ Out of Service - Provide Date: _____

Fire Department Providing Fire Coverage Where Tank Located:

A. IDENTIFICATION: (Please Print)

1. Tank Site Name	Site Address		Site Telephone No. ( )
☐ City ☐ Village ☐ Town of:	State	Zip Code	County
2. Owner Name (mail sent here unless indicated otherwise in #3 below)	Owner Mailing Address (mail sent here unless indicated otherwise in #3)		
☐ City ☐ Village ☐ Town of:	State	Zip Code	County
3. Alternate Mailing Name If Different Than #2	Alternate Mailing Street Address If Different From #2		
☐ City ☐ Village ☐ Town of:	State	Zip Code	County

4. Tank Age (date installed, if known: or years old)	5. Tank Capacity (gallons)	6. Tank Manufacturer's Name (if known)

B. TYPE OF USER (check one):
1. ☐ Gas Station 2. ☐ Bulk Storage 3. ☐ Utility 4. ☐ Mercantile
5. ☐ Industrial 6. ☐ Government 7. ☐ School 8. ☐ Residential
9. ☐ Agricultural 10. ☐ Other (specify): _____

C. TANK CONSTRUCTION:
1. ☐ Bare Steel 2. ☐ Cathodically Protected and Coated Steel (A. ☐ Sacrificial Anodes or B. ☐ Impressed Current)
3. ☐ Coated Steel 4. ☐ Fiberglass 5. ☐ Other (specify): _____
6. ☐ Relined - Date _____ 7. ☐ Steel - Fiberglass Reinforced Plastic Composite 9. ☐ Unknown

Approval: 1. ☐ Nat'l Std. 2. ☐ UL 3. ☐ Other:	Is Tank Double Walled? ☐ Yes ☐ No
Overfill Protection Provided? ☐ Yes ☐ No If yes, identify type:	Spill Containment? ☐ Yes ☐ No

Tank leak detection method: 1. ☐ Automatic tank gauging 2. ☐ Vapor monitoring 3. ☐ Groundwater monitoring 4. ☐ Inventory control and tightness testing 5. ☐ Interstitial monitoring 6. ☐ Not required at present 7. ☐ Manual Tank Gauging (only for tanks of 1,000 gallons or less)

D. PIPING CONSTRUCTION
1. ☐ Bare Steel 2. ☐ Cathodically Protected and Coated or Wrapped Steel (A. ☐ Sacrificial Anodes or B. ☐ Impressed Current) 3. ☐ Coated Steel
4. ☐ Fiberglass 5. ☐ Other (specify): _____ 9. ☐ Unknown

Piping System Type: 1. ☐ Pressurized piping with: A. ☐ auto shutoff; B. ☐ alarm; or C. ☐ flow restrictor 2. ☐ Suction piping with check valve at tank
3. ☐ Suction piping with check valve at pump and inspectable

Piping leak detection method: used if pressurized or check valve at tank: 1. ☐ Vapor monitoring 2. ☐ Interstitial monitoring
3. ☐ Groundwater monitoring 4. ☐ Tightness testing 5. ☐ Line Leak Detector 6. ☐ Not Required

Approval: 1. ☐ Nat'l Std 2. ☐ UL 3. ☐ Other:	Double Walled: ☐ Yes ☐ No

E. TANK CONTENTS
1. ☐ Diesel 2. ☐ Leaded 3. ☐ Unleaded 4. ☐ Fuel Oil
5. ☐ Gasohol 6. ☐ Other 7. ☐ Empty 8. ☐ Sand/Gravel/Slurry
9. ☐ Unknown 10. ☐ Premix 11. ☐ Waste Oil 12. ☐ Propane
13. ☐ Chemical * _____ _____ _____ 14. ☐ Kerosene 15. ☐ Aviation

* If # 13 is checked, indicate the chemical name(s) or number(s) of the chemical or waste.

If Tank Closed, Give Date (mo/day/yr):	Has a site assessment been completed? (see reverse side for details) ☐ Yes ☐ No

If installation of a new tank is being reported, indicate who performed the installation inspection:
1. ☐ Fire Department 2. ☐ DILHR 3. ☐ Other (identify) _____

Name of Owner or Operator (please print):	Indicate Whether: ☐ Owner or ☐ Operator
Signature of Owner or Operator:	Date Signed:

SBD-7437 (R. 05/94) IMPORTANT: Complete as many items on this form as possible. Failure to provide sufficient information may cause you to fall under additional regulations.

BACKGROUND FOR TANK INVENTORY

On May 4, 1984, legislation commonly known as the Ground Water Protection Act was signed into law. This legislation required the creation of an inventory of underground petroleum product storage tanks. A record of this information was necessitated by numerous reported incidents of ground water contamination by petroleum products. Many tanks have been installed, used and forgotten. These installations can threaten the ground water.

This underground tank inventory is being established to help identify the need for future actions required to clear up potential problems before they occur. Your help in identifying abandoned, "in use" and "new use" tank locations will greatly assist this effort to protect Wisconsin's ground water.

SITE ASSESSMENT INFORMATION

Requirements for a site assessment at the closure or change in service for a federally regulated underground storage tank were outlined in federal rules published in the September 23,1988 Federal Register, 40 CFR 280 and 281.

The requirements in § 280.72 state:

> (a) Before permanent closure or a change-in-service is completed, owners and operators must measure for the presence of a release where contamination is most likely to be present at the UST site. In selecting sample types, sample locations, and measurement methods, owners and operators must consider the method of closure, the nature of the stored substance, the type of backfill, the depth to ground water, and other factors appropriate for identifying the presence of a release. The requirements of this section are satisfied if one of the external release detection methods allowed in § 280.43 (e) and (f) is operating in accordance with the requirements in § 280.43 at the time of closure, and indicates no release has occurred.

The external release detection methods in § 280.43 (e) and (f) are summarized below:

> "(e) *Vapor monitoring."* This sub section refers to the testing or monitoring for vapors within the soil gas of the tank's excavation zone. It further requires seven (7) conditions to be met to qualify the testing program as a valid vapor monitoring system.
>
> *"(f) Ground-water monitoring."* This sub section refers to the testing or monitoring for liquids on the ground water below the tank. It establishes the requirements for an acceptable system that effectively monitors the ground water for the presence of regulated substances and insures the integrity of the monitoring wells so the wells themselves do not become conduits for ground water contamination.

Complete written guidelines on the conduct of a site assessment can be obtained from the DILHR Bureau of Petroleum Inspection & Fire Protection at the following address:

Bureau of Petroleum Inspection and Fire Protection
P.O. Box 7969
Madison, WI 53707

Site assessments are to be submitted to both the DILHR office and to the DNR at the following addresses:

Bureau of Petroleum Inspection & Fire Protection
P.O. Box 7969
Madison, WI 53707

Bureau of Solid and Hazardous Waste Management
P.O. Box 7921
Madison, WI 53707

Wisconsin Department of Industry, Labor and Human Relations

For Office Use Only:
Tank ID #

ABOVEGROUND
PETROLEUM PRODUCT TANK INVENTORY

Send Completed Form To:
Safety & Buildings Division
P.O. Box 7969
Madison, WI 53707
Telephone (608) 267-5280

This form must be completed pursuant to s. 101.142, Wis. Stats., to register an above ground petroleum product storage system. An aboveground petroleum product storage system is an aboveground tank, used to store petroleum products, together with an on-site integral piping or dispensing system. Not included are pipeline facilities, tanks of 110 gallons or less capacity, farm and residential tanks of 1,100 gallons or less capacity, tanks used for storing heating oil for consumptive use on the premises where stored or tanks owned by the state or federal government. A separate form is needed for each tank. Send each completed form to the address in the top right corner.

This registration applies to a tank that is (check one):
1. ☐ In Use
2. ☐ Out of Service With Product
3. ☐ Out of Service With No Product (Empty)
4. ☐ Closed - Tank Removed
5. ☐ Closed - Tank Cleaned
6. ☐ Changed Ownership (Indicate new owner in section A. 3. below)

Fire Department Providing Fire Coverage Where Tank Is Located:
☐ City ☐ Village ☐ Town of: _____

A. IDENTIFICATION (Please Print)

1. Tank Site Name | Site Address | Site Telephone Number ( )

☐ City ☐ Village ☐ Town of: | State | Zip Code | County

2. Owner Name (mail sent here unless indicated otherwise in #3) | Owner Mailing Address (mail sent here unless indicated otherwise in #3)

☐ City ☐ Village ☐ Town of: | State | Zip Code | County

3. Alternate Mailing Name If Different Than #2 | Alternate Mailing Street Address If Different Than #2

☐ City ☐ Village ☐ Town of: | State | Zip Code | County

4. Tank Age (date installed, if new; years old, if used) | 5. Tank Capacity (gal.) | 6. Tank Manufacturer's Name (if known)

7. If more than 1 tank is being reported at a facility, provide an 8 1/2 x 11 plot plan drawn to scale (1" = 20 ft.), numbering and indicating the location of the tanks being reported. If a plot plan is being submitted, this form is for tank number:

B. TYPE OF USER (check one):

1 ☐ Gas Station (any resale) 2. ☐ Bulk Storage 3. ☐ Utility 4. ☐ Mercantile / Commercial
5 ☐ Industrial 6. ☐ Government 7. ☐ School 8. ☐ Residential
9 ☐ Agricultural 10. ☐ Other (specify): _____

C. TANK CONSTRUCTION (check one):

1 ☐ Bare Steel 2 ☐ FRP Clad Steel 3. ☐ Steel With Lining 4. ☐ Concrete
5 ☐ Other (specify): _____

Tank is built to: ☐ National Standard _____ or ☐ UL Approval or ☐ Other _____

D. ROOF (Check one):

1 ☐ Fixed Roof 2. ☐ Floating External 3. ☐ Floating Internal 4. ☐ Other _____

E. TANK BASE:

1 ☐ On Ground 2. ☐ On Supports 3. ☐ On Cement 4. ☐ On Liner
5 ☐ Double Bottom 6. ☐ Other _____

F. PIPING: ☐ Aboveground ☐ Underground ☐ Both

Above Ground Piping Construction: ☐ Steel ☐ Other _____

Underground Piping Construction:
1 ☐ Bare Steel 2 ☐ Cathodically Protected and coated or Wrapped Steel (a. ☐ Sacrificial Anodes or b. ☐ Impressed Current) 3. ☐ Coated Steel
4 ☐ Fiberglass 5. ☐ Other (specify): _____ 6. ☐ Unknown

G. CONTAINMENT:

Dike Side Material: 1 ☐ Block 2. ☐ Concrete 3. ☐ Earth 4. ☐ Synthetic 5. ☐ Double Wall _____ (Material Approval #)

Dike Base Material: 1 ☐ Concrete 2. ☐ Engineered Clay - Thickness _____ 3. ☐ Earth 4. ☐ Synthetic - Make & Model #: _____

Remote Impounding? ☐ Yes ☐ No

H. DISTANCE FROM DIKE WALL TO NEAREST:

1 Well _____ Ft. 2. Property Line _____ Ft. 3. Surface Water _____ Ft. 4. Nearest Building On Property _____ Ft

I. TANK CONTENTS

1 ☐ Diesel 2. ☐ Leaded 3. ☐ Unleaded 4. ☐ Fuel Oil
5 ☐ Gasohol 6. ☐ Other 7. ☐ Empty 9. ☐ Unknown
10 ☐ Premix 11. ☐ Waste Oil 13. ☐ Chemical * _____ _____ _____
14 ☐ Kerosene 15. ☐ Aviation

* If # 13 is checked, indicate the chemical name(s) or number(s) of the chemical or waste.

If Tank Was Removed or Cleaned For Other Use, Give Date (mo/day/yr):	Owner's Signature:	Date Signed:

The information you provide may be used by other agency programs [Privacy Law, s. 15.04(1)(m)].

SBD 8731 (R 02/94)

Wisconsin Department of Industry, Labor and Human Relations

UNDERGROUND STORAGE TANK SYSTEM USE PERMIT APPLICATION

Send Completed Form To:
Safety and Buildings Division
Bureau of Petroleum Inspection and Fire Protection
P.O. Box 7969, Madison, WI 53707

Tank ID Number

If this system is permanently closed, complete only the TANK CLOSURE INFORMATION section on this page.

1. Tank Leak Detection Compliance Date	2. Tank Installation Date	3. Gallons	4. User

5. Tank Construction	6. Tank Double Walled?	7. Tank Overfill Protection:	8. Tank Spill Containment:	9. Tank Leak Detection Method
10. Piping Construction	11. Piping Double Walled?	12. Piping System Type	13. Piping Leak Detection	14. Tank Contents

If the site name and/or address appearing above is incorrect in any way, please indicate corrections below:

If the owner/mailing name and/or address appearing above is incorrect in any way, please indicate corrections below:

TANK SYSTEM DESCRIPTION VERIFICATION

A Use Permit must be obtained for the continued operation of the underground petroleum storage tank system described on this application. **You must review and verify the pre-printed codes and descriptions appearing above in boxes 2 thru 14. If any box has no code or the pre-printed code is incorrect, provide the correct code for that box from the Code Key below.** PLEASE NOTE: "TANK CONSTRUCTION" IN BOX 5, "PIPING CONSTRUCTION" IN BOX 10 AND "PIPING SYSTEM TYPE" IN BOX 12 MUST BE COMPLETED. IF THIS INFORMATION IS NOT PROVIDED, A USE PERMIT CANNOT BE ISSUED. If this system is permanently closed, complete only the TANK CLOSURE INFORMATION section on this page.

CODE KEY

Type of User: 01-Gas Station; 02-Bulk Storage; 03-Utility; 04-Mercantile; 05-Industrial; 06-Government; 07-School; 08-Residential 09-Agriculture; 10-Other

Tank Construction; 01-Bare Steel; 02-Cathodically Protected and Coated Steel (a.-Sacrificial Anodes or b.-Impressed Current); 03-Coated Steel; 04-Fiberglass; 05-other; 06-Relined; 07-Steel - Fiberglass Reinforced Plastic Composite

Tank Leak Detection Method: 01-Automatic Tank Gauging; 02-Vapor Monitoring; 03-Groundwater Monitoring; 04-Inventory Control and Tightness Testing; 05-Interstitial Monitoring; 06-Not Required At Present; 07-Manual Tank Gauging (up to 1,000 gallons only)

Piping Construction: 01-Bare Steel; 02-Cathodically Protected and Coated or Wrapped Steel (a.-Sacrificial Anodes or b.-Impressed Current); 03-Coated Steel; 04-Fiberglass; 05-other

Piping System Type: 01-Pressurized Piping With: a.-Auto Shutoff; b.-Alarm; or c.-Flow Restrictor; 02-Suction Piping With Check Valve at Tank; 03-Suction Piping With Check Valve at Pump and Inspectable; 04-Not Needed If Waste Oil Tank

Piping Leak Detection Method: 01-Vapor Monitoring; 02-Interstitial Monitoring; 03-Groundwater Monitoring; 04-Tightness Testing; 05-Line Leak Detector; 06-Not Required

Tank Contents: 01-Diesel; 02-Leaded; 03-Unleaded; 04-Fuel Oil; 05-Gasohol; 06-Other; 07-Empty; 08-Sand/Gravel/Slurry; 10-Premix; 11-Waste Oil; 12-Propane; 13-Chemical; 14-Kerosene; 15-Aviation

TANK CLOSURE INFORMATION

Indicate whether tank was: ☐ Removed ☐ Filled With Inert Material	Give Date Tank Was Closed (mo/day/yr):	Has closure assessment been completed? ☐ Yes ☐ No
Signature of Owner or Operator:		Date Signed:

IMPORTANT INSTRUCTIONS FOR COMPLETION OF REVERSE SIDE

- If the "leak detection" compliance date indicated in box 1 above has been reached, Section A on the reverse side must be completed to verify compliance with leak detection code requirements.
- If box 12 above shows code 01 or if you have pressurized piping but had not previously indicated such, you must complete Section B to verify compliance with pressurized piping code requirements.
- If box 12 above shows code 02, or if you have a suction system with the check valve at the tank but previously had not reported it, the compliance date for leak detection on your piping is the same as that for the tank. If you have reached the tank leak detection compliance date indicated in box 1 above, you must complete Section C on the reverse side.

COMPLETE ALL SECTIONS ON REVERSE SIDE

SBD-7658 (R. 12/93)

A. Leak Detection Verification For Tank

Indicate which leak detection method(s) you are using. Check all applicable items and attach requested information.

☐ Tightness testing and inventory control. Attach a copy of the report on the latest tank test.

☐ Vapor monitoring. Attach a plot plan drawn to scale (scale not smaller than 1" = 20') showing the location of tanks and associated monitoring wells. Provide the name and model number of the device used to monitor for presence of vapors: _____
Name Model #

☐ Groundwater monitoring. Attach a plot plan drawn to scale (scale not smaller than 1" = 20') showing the location of tanks and associated monitoring wells. Provide depth to groundwater: _____ feet. Provide name and model number of device/system used to monitor for presence of product in well:

_____
Name Model #

☐ Interstitial monitoring. Provide name and model number of interstitial monitoring device:

_____
Name Model #

☐ Automatic tank gauging. Provide name and model # of gauge system:

_____
Name Model #

☐ Manual tank gauging (tanks of 1,000 gallons or less in size only).

B. Pressurized Piping Systems Must Have Leak Detection Installed By 12/22/90. System requires both:

Flow restrictor, automatic shutoff or continuous alarm; provide the name and model number of system installed:

_____
Name Model #

AND

A leak detection method from the following list; check all items that apply and attach requested information.

☐ Tightness testing. Attach a copy of the report on the latest test of the piping system.

☐ Vapor monitoring. Attach a plot plan drawn to scale (scale not smaller than 1" = 20') showing the location of piping and associated monitoring wells. Provide the name and model number of the device used to monitor for presence of vapors: _____
Name Model #

☐ Groundwater monitoring. Attach a plot plan drawn to scale (scale not smaller than 1" = 20') showing the location of piping and associated monitoring wells. Provide depth to groundwater: _____ feet. Provide name and model number of device/system used to monitor for presence of product in well:

_____
Name Model #

☐ Interstitial monitoring. Provide name and model number of interstitial monitoring device:

_____
Name Model #

☐ Line leak detector. Provide name and model # of device:

_____
Name Model #

C. Leak Detection For Piping

Suction piping with the check valve at the tank: indicate which method(s) of leak detection you are using. Check all items that apply and attach requested information. Leak detection deadlines for suction piping (with the check valve at the tank) match that of the tank system.

☐ Tightness testing. Attach a copy of the report on the latest test of the system.

☐ Vapor monitoring. Attach a plot plan drawn to scale (scale not smaller than 1" = 20') showing the location of lines and associated monitoring wells. Provide the name and model number of the device used to monitor for presence of vapors: _____
Name Model #

☐ Groundwater monitoring. Attach a plot plan drawn to scale (scale not smaller than 1" = 20') showing the location of piping and associated monitoring wells. Provide depth to groundwater: _____ feet. Provide name and model number of device/system used to monitor for presence of product in well:

_____
Name Model #

☐ Interstitial monitoring. Provide name and model number of interstitial monitoring devise:

_____
Name Model #

A10.15 ABANDONED OR REMOVED UNDERGROUND STORAGE TANK REGISTRATION PROCEDURE. The following forms (SBD-7437 and SBD-8731) are referred to in this section. Copies of these forms are available from the Division of Safety and Buildings, P.O. Box 7969, Madison, Wisconsin 53707, or from the local fire department or authorized agent.

Wisconsin Department of Industry, Labor and Human Relations

For Office Use Only:
Tank ID #

UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY

Information Required By Sec. 102.142, Wis. Stats.

Send Completed Form To:
Safety & Buildings Division
P.O. Box 7969
Madison, WI 53707
Telephone: (608) 267-5280

Underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances must be registered. Please see the reverse side for additional information on this program. An underground storage tank is defined as any tank with at least 10 percent of its total volume (included piping) located below ground level. A separate form is needed for each tank. Send each completed form to the agency designated in the top right corner. Have you previously registered this tank by submitting a form? ☐ YES ☐ NO If yes, are you correcting/updating information only? ☐ Yes ☐ No

The information you provide may be used by other government agency programs (Privacy Law, s. 15.04 (1) (m)).

This registration applies to a tank that is (check one):
1A. ☐ In Use or 1B. ☐ Newly Installed 4. ☐ Closed - Tank Removed 8. ☐ Changed Ownership
2. ☐ Abandoned With Product 6. ☐ Closed - Filled With (Indicate new owner
3. ☐ Abandoned No Product (empty) Inert Material below)
or With Water 7. ☐ Out of Service - Provide Date: _____

Fire Department Providing Fire Coverage Where Tank Located:

A. IDENTIFICATION: (Please Print)

1. Tank Site Name | Site Address | Site Telephone No. ( )

☐ City ☐ Village ☐ Town of: | State | Zip Code | County

2. Owner Name (mail sent here unless indicated otherwise in #3 below) | Owner Mailing Address (mail sent here unless indicated otherwise in #3)

☐ City ☐ Village ☐ Town of: | State | Zip Code | County

3. Alternate Mailing Name If Different Than #2 | Alternate Mailing Street Address If Different From #2

☐ City ☐ Village ☐ Town of: | State | Zip Code | County

4. Tank Age (date installed, if known: or years old) | 5. Tank Capacity (gallons) | 6. Tank Manufacturer's Name (if known)

B. TYPE OF USER (check one):
1. ☐ Gas Station 2. ☐ Bulk Storage 3. ☐ Utility 4. ☐ Mercantile
5. ☐ Industrial 6. ☐ Government 7. ☐ School 8. ☐ Residential
9. ☐ Agricultural 10. ☐ Other (specify): _____

C. TANK CONSTRUCTION:
1. ☐ Bare Steel 2. ☐ Cathodically Protected and Coated Steel (A. ☐ Sacrificial Anodes or B. ☐ Impressed Current)
3. ☐ Coated Steel 4. ☐ Fiberglass 5. ☐ Other (specify): _____
6. ☐ Relined - Date _____ 7. ☐ Steel - Fiberglass Reinforced Plastic Composite 9. ☐ Unknown

Approval: 1. ☐ Nat'l Std. 2. ☐ UL 3. ☐ Other: | Is Tank Double Walled? ☐ Yes ☐ No

Overfill Protection Provided? ☐ Yes ☐ No If yes, identify type: | Spill Containment? ☐ Yes ☐ No

Tank leak detection method: 1. ☐ Automatic tank gauging 2. ☐ Vapor monitoring 3. ☐ Groundwater monitoring 4. ☐ Inventory control and tightness testing 5. ☐ Interstitial monitoring 6. ☐ Not required at present 7. ☐ Manual Tank Gauging (only for tanks of 1,000 gallons or less)

D. PIPING CONSTRUCTION
1. ☐ Bare Steel 2. ☐ Cathodically Protected and Coated or Wrapped Steel (A. ☐ Sacrificial Anodes or B. ☐ Impressed Current) 3. ☐ Coated Steel
4. ☐ Fiberglass 5. ☐ Other (specify): _____ 9. ☐ Unknown

Piping System Type: 1. ☐ Pressurized piping with: A ☐ auto shutoff; B. ☐ alarm; or C. ☐ flow restrictor 2. ☐ Suction piping with check valve at tank
3. ☐ Suction piping with check valve at pump and inspectable

Piping leak detection method: used if pressurized or check valve at tank: 1. ☐ Vapor monitoring 2. ☐ Interstitial monitoring
3. ☐ Groundwater monitoring 4. ☐ Tightness testing 5. ☐ Line Leak Detector 6. ☐ Not Required

Approval: 1. ☐ Nat'l Std 2. ☐ UL 3. ☐ Other: | Double Walled: ☐ Yes ☐ No

E. TANK CONTENTS
1. ☐ Diesel 2. ☐ Leaded 3. ☐ Unleaded 4. ☐ Fuel Oil
5. ☐ Gasohol 6. ☐ Other 7. ☐ Empty 8. ☐ Sand/Gravel/Slurry
9. ☐ Unknown 10. ☐ Premix 11. ☐ Waste Oil 12. ☐ Propane
13. ☐ Chemical * _____ _____ _____ 14. ☐ Kerosene 15. ☐ Aviation

* If # 13 is checked, indicate the chemical name(s) or number(s) of the chemical or waste.

If Tank Closed, Give Date (mo/day/yr): | Has a site assessment been completed? (see reverse side for details) ☐ Yes ☐ No

If installation of a new tank is being reported, indicate who performed the installation inspection:
1. ☐ Fire Department 2. ☐ DILHR 3. ☐ Other (identify) _____

Name of Owner or Operator (please print): | Indicate Whether: ☐ Owner or ☐ Operator

Signature of Owner or Operator: | Date Signed:

SBD-7437 (R. 05/94) **IMPORTANT:** Complete as many items on this form as possible. Failure to provide sufficient information may cause you to fall under additional regulations.

BACKGROUND FOR TANK INVENTORY

On May 4, 1984, legislation commonly known as the Ground Water Protection Act was signed into law. This legislation required the creation of an inventory of underground petroleum product storage tanks. A record of this information was necessitated by numerous reported incidents of ground water contamination by petroleum products. Many tanks have been installed, used and forgotten. These installations can threaten the ground water.

This underground tank inventory is being established to help identify the need for future actions required to clear up potential problems before they occur. Your help in identifying abandoned, "in use" and "new use" tank locations will greatly assist this effort to protect Wisconsin's ground water.

SITE ASSESSMENT INFORMATION

Requirements for a site assessment at the closure or change in service for a federally regulated underground storage tank were outlined in federal rules published in the September 23,1988 Federal Register, 40 CFR 280 and 281.

The requirements in § 280.72 state:

> (a) Before permanent closure or a change-in-service is completed, owners and operators must measure for the presence of a release where contamination is most likely to be present at the UST site. In selecting sample types, sample locations, and measurement methods, owners and operators must consider the method of closure, the nature of the stored substance, the type of backfill, the depth to ground water, and other factors appropriate for identifying the presence of a release. The requirements of this section are satisfied if one of the external release detection methods allowed in § 280.43 (e) and (f) is operating in accordance with the requirements in § 280.43 at the time of closure, and indicates no release has occurred.

The external release detection methods in § 280.43 (e) and (f) are summarized below:

> "(e) *Vapor monitoring."* This sub section refers to the testing or monitoring for vapors within the soil gas of the tank's excavation zone. It further requires seven (7) conditions to be met to qualify the testing program as a valid vapor monitoring system.
>
> *"(f) Ground-water monitoring."* This sub section refers to the testing or monitoring for liquids on the ground water below the tank. It establishes the requirements for an acceptable system that effectively monitors the ground water for the presence of regulated substances and insures the integrity of the monitoring wells so the wells themselves do not become conduits for ground water contamination.

Complete written guidelines on the conduct of a site assessment can be obtained from the DILHR Bureau of Petroleum Inspection & Fire Protection at the following address:

Bureau of Petroleum Inspection and Fire Protection
P.O. Box 7969
Madison, WI 53707

Site assessments are to be submitted to both the DILHR office and to the DNR at the following addresses:

Bureau of Petroleum Inspection & Fire Protection
P.O. Box 7969
Madison, WI 53707

Bureau of Solid and Hazardous Waste Management
P.O. Box 7921
Madison, WI 53707

Wisconsin Department of Industry, Labor and Human Relations

For Office Use Only:
Tank ID #

ABOVEGROUND
PETROLEUM PRODUCT TANK INVENTORY

Send Completed Form To:
Safety & Buildings Division
P.O. Box 7969
Madison, WI 53707
Telephone (608) 267-5280

This form must be completed pursuant to s. 101.142, Wis. Stats., to register an above ground petroleum product storage system. An aboveground petroleum product storage system is an aboveground tank, used to store petroleum products, together with an on-site integral piping or dispensing system. Not included are pipeline facilities, tanks of 110 gallons or less capacity, farm and residential tanks of 1,100 gallons or less capacity, tanks used for storing heating oil for consumptive use on the premises where stored or tanks owned by the state or federal government. **A separate form is needed for each tank. Send each completed form to the address in the top right corner.**

This registration applies to a tank that is (check one):
1. ☐ In Use
2. ☐ Out of Service With Product
3. ☐ Out of Service With No Product (Empty)
4. ☐ Closed - Tank Removed
5. ☐ Closed - Tank Cleaned
6. ☐ Changed Ownership (Indicate new owner in section A. 3. below)

Fire Department Providing Fire Coverage Where Tank Is Located:
☐ City ☐ Village ☐ Town of: _____

A. IDENTIFICATION (Please Print)

1 Tank Site Name | Site Address | Site Telephone Number ( )

☐ City ☐ Village ☐ Town of: | State | Zip Code | County

2 Owner Name (mail sent here unless indicated otherwise in #3) | Owner Mailing Address (mail sent here unless indicated otherwise in #3)

☐ City ☐ Village ☐ Town of: | State | Zip Code | County

3 Alternate Mailing Name If Different Than #2 | Alternate Mailing Street Address If Different Than #2

☐ City ☐ Village ☐ Town of: | State | Zip Code | County

4 Tank Age (date installed, if new; years old, if used) | 5. Tank Capacity (gal.) | 6. Tank Manufacturer's Name (if known)

7 If more than 1 tank is being reported at a facility, provide an 8 1/2 x 11 plot plan drawn to scale (1" = 20 ft.), numbering and indicating the location of the tanks being reported. If a plot plan is being submitted, this form is for tank number:

B. TYPE OF USER (check one):

1 ☐ Gas Station (any resale) 2. ☐ Bulk Storage 3. ☐ Utility 4. ☐ Mercantile / Commercial
5 ☐ Industrial 6 ☐ Government 7. ☐ School 8. ☐ Residential
9 ☐ Agricultural 10. ☐ Other (specify): _____

C. TANK CONSTRUCTION (check one):

1 ☐ Bare Steel 2 ☐ FRP Clad Steel 3. ☐ Steel With Lining 4. ☐ Concrete
5 ☐ Other (specify): _____

Tank is built to: ☐ National Standard _____ or ☐ UL Approval or ☐ Other _____

D. ROOF (Check one):

1 ☐ Fixed Roof 2. ☐ Floating External 3 ☐ Floating Internal 4. ☐ Other _____

E. TANK BASE:

1 ☐ On Ground 2. ☐ On Supports 3. ☐ On Cement 4. ☐ On Liner
5. ☐ Double Bottom 6. ☐ Other _____

F. PIPING: ☐ Aboveground ☐ Underground ☐ Both

Above Ground Piping Construction: ☐ Steel ☐ Other _____

Underground Piping Construction:
1 ☐ Bare Steel 2 ☐ Cathodically Protected and coated or Wrapped Steel (a. ☐ Sacrificial Anodes or b. ☐ Impressed Current) 3. ☐ Coated Steel
4 ☐ Fiberglass 5. ☐ Other (specify): _____ 6. ☐ Unknown

G. CONTAINMENT:

Dike Side Material: 1 ☐ Block 2. ☐ Concrete 3. ☐ Earth 4. ☐ Synthetic 5. ☐ Double Wall _____ Material Approval #

Dike Base Material: 1 ☐ Concrete 2. ☐ Engineered Clay - Thickness _____ 3. ☐ Earth 4. ☐ Synthetic - Make & Model #: _____

Remote Impounding? ☐ Yes ☐ No

H. DISTANCE FROM DIKE WALL TO NEAREST:

1 Well _____ Ft 2. Property Line _____ Ft. 3. Surface Water _____ Ft. 4. Nearest Building On Property _____ Ft

I. TANK CONTENTS

1 ☐ Diesel 2. ☐ Leaded 3. ☐ Unleaded 4. ☐ Fuel Oil
5 ☐ Gasohol 6 ☐ Other 7. ☐ Empty 9. ☐ Unknown
10 ☐ Premix 11. ☐ Waste Oil 13. ☐ Chemical * _____ _____ _____
14 ☐ Kerosene 15. ☐ Aviation

* If # 13 is checked, indicate the chemical name(s) or number(s) of the chemical or waste.

If Tank Was Removed or Cleaned For Other Use, Give Date (mo/day/yr):	Owner's Signature:	Date Signed:

The information you provide may be used by other agency programs [Privacy Law, s. 15.04(1)(m)].

SBD 8731 (R 02/94)

A10.16 NEW AND REPLACEMENT UNDERGROUND TANK USE PERMIT. The following forms (SBD-7658, SBD-7659 and SBD-6294) are referred to in this section. Copies ofthese forms are available from the Division of Safety and Buildings, P.O. Box 7969, Madison, Wisconsin 53707, or from the local fire department or authorized agent.

Wisconsin Department of Industry, Labor and Human Relations

UNDERGROUND STORAGE TANK SYSTEM USE PERMIT APPLICATION

If this system is permanently closed, complete only the TANK CLOSURE INFORMATION section on this page.

Send Completed Form To:
Safety and Buildings Division
Bureau of Petroleum Inspection and Fire Protection
P.O. Box 7969, Madison, WI 53707

Tank ID Number				
1. Tank Leak Detection Compliance Date	2. Tank Installation Date	3. Gallons	4. User	
5. Tank Construction	6. Tank Double Walled?	7. Tank Overfill Protection:	8. Tank Spill Containment:	9. Tank Leak Detection Method
10. Piping Construction	11. Piping Double Walled?	12. Piping System Type	13. Piping Leak Detection	14. Tank Contents

If the site name and/or address appearing above is incorrect in any way, please indicate corrections below:

If the owner/mailing name and/or address appearing above is incorrect in any way, please indicate corrections below:

TANK SYSTEM DESCRIPTION VERIFICATION

A Use Permit must be obtained for the continued operation of the underground petroleum storage tank system described on this application. **You must review and verify the pre-printed codes and descriptions appearing above in boxes 2 thru 14. If any box has no code or the pre-printed code is incorrect, provide the correct code for that box from the Code Key below.** PLEASE NOTE: "TANK CONSTRUCTION" IN BOX 5, "PIPING CONSTRUCTION" IN BOX 10 AND "PIPING SYSTEM TYPE" IN BOX 12 MUST BE COMPLETED. IF THIS INFORMATION IS NOT PROVIDED, A USE PERMIT CANNOT BE ISSUED. If this system is permanently closed, complete only the TANK CLOSURE INFORMATION section on this page.

CODE KEY

Type of User:	01-Gas Station; 02-Bulk Storage; 03-Utility; 04-Mercantile; 05-Industrial; 06-Government; 07-School; 08-Residential 09-Agriculture; 10-Other
Tank Construction;	01-Bare Steel; 02-Cathodically Protected and Coated Steel (a.-Sacrificial Anodes or b.-Impressed Current); 03-Coated Steel; 04-Fiberglass; 05-other; 06-Relined; 07-Steel - Fiberglass Reinforced Plastic Composite
Tank Leak Detection Method:	01-Automatic Tank Gauging; 02-Vapor Monitoring; 03-Groundwater Monitoring; 04-Inventory Control and Tightness Testing; 05-Interstitial Monitoring; 06-Not Required At Present; 07-Manual Tank Gauging (up to 1,000 gallons only)
Piping Construction:	01-Bare Steel; 02-Cathodically Protected and Coated or Wrapped Steel (a.-Sacrificial Anodes or b.-Impressed Current); 03-Coated Steel; 04-Fiberglass; 05-other
Piping System Type:	01-Pressurized Piping With: a.-Auto Shutoff; b.-Alarm; or c.-Flow Restrictor; 02-Suction Piping With Check Valve at Tank; 03-Suction Piping With Check Valve at Pump and Inspectable; 04-Not Needed If Waste Oil Tank
Piping Leak Detection Method:	01-Vapor Monitoring; 02-Interstitial Monitoring; 03-Groundwater Monitoring; 04-Tightness Testing; 05-Line Leak Detector; 06-Not Required
Tank Contents:	01-Diesel; 02-Leaded; 03-Unleaded; 04-Fuel Oil; 05-Gasohol; 06-Other; 07-Empty; 08-Sand/Gravel/Slurry; 10-Premix; 11-Waste Oil; 12-Propane; 13-Chemical; 14-Kerosene; 15-Aviation

TANK CLOSURE INFORMATION

Indicate whether tank was: ☐ Removed ☐ Filled With Inert Material	Give Date Tank Was Closed (mo/day/yr):	Has closure assessment been completed? ☐ Yes ☐ No
Signature of Owner or Operator:	Date Signed:	

IMPORTANT INSTRUCTIONS FOR COMPLETION OF REVERSE SIDE

- If the "leak detection" compliance date indicated in box 1 above has been reached, Section A on the reverse side must be completed to verify compliance with leak detection code requirements.
- If box 12 above shows code 01 or if you have pressurized piping but had not previously indicated such, you must complete Section B to verify compliance with pressurized piping code requirements.
- If box 12 above shows code 02, or if you have a suction system with the check valve at the tank but previously had not reported it, the compliance date for leak detection on your piping is the same as that for the tank. If you have reached the tank leak detection compliance date indicated in box 1 above, you must complete Section C on the reverse side.

COMPLETE ALL SECTIONS ON REVERSE SIDE

SBD 7658 (R 12/91)

A. Leak Detection Verification For Tank

Indicate which leak detection method(s) you are using. Check all applicable items and attach requested information.

☐ Tightness testing and inventory control. Attach a copy of the report on the latest tank test.

☐ Vapor monitoring. Attach a plot plan drawn to scale (scale not smaller than 1" = 20') showing the location of tanks and associated monitoring wells. Provide the name and model number of the device used to monitor for presence of vapors: _____
Name Model #

☐ Groundwater monitoring. Attach a plot plan drawn to scale (scale not smaller than 1" = 20') showing the location of tanks and associated monitoring wells. Provide depth to groundwater: _____ feet. Provide name and model number of device/system used to monitor for presence of product in well:

_____
Name Model #

☐ Interstitial monitoring. Provide name and model number of interstitial monitoring device:

_____
Name Model #

☐ Automatic tank gauging. Provide name and model # of gauge system:

_____
Name Model #

☐ Manual tank gauging (tanks of 1,000 gallons or less in size only).

B. Pressurized Piping Systems Must Have Leak Detection Installed By 12/22/90. System requires both:

Flow restrictor, automatic shutoff or continuous alarm; provide the name and model number of system installed:

_____
Name Model #

AND

A leak detection method from the following list; check all items that apply and attach requested information.

☐ Tightness testing. Attach a copy of the report on the latest test of the piping system.

☐ Vapor monitoring. Attach a plot plan drawn to scale (scale not smaller than 1" = 20') showing the location of piping and associated monitoring wells. Provide the name and model number of the device used to monitor for presence of vapors: _____
Name Model #

☐ Groundwater monitoring. Attach a plot plan drawn to scale (scale not smaller than 1" = 20') showing the location of piping and associated monitoring wells. Provide depth to groundwater: _____ feet. Provide name and model number of device/system used to monitor for presence of product in well:

_____
Name Model #

☐ Interstitial monitoring. Provide name and model number of interstitial monitoring device:

_____
Name Model #

☐ Line leak detector. Provide name and model # of device:

_____
Name Model #

C. Leak Detection For Piping

Suction piping with the check valve at the tank: indicate which method(s) of leak detection you are using. Check all items that apply and attach requested information. Leak detection deadlines for suction piping (with the check valve at the tank) match that of the tank system.

☐ Tightness testing. Attach a copy of the report on the latest test of the system.

☐ Vapor monitoring. Attach a plot plan drawn to scale (scale not smaller than 1" = 20') showing the location of lines and associated monitoring wells. Provide the name and model number of the device used to monitor for presence of vapors: _____
Name Model #

☐ Groundwater monitoring. Attach a plot plan drawn to scale (scale not smaller than 1" = 20') showing the location of piping and associated monitoring wells. Provide depth to groundwater: _____ feet. Provide name and model number of device/system used to monitor for presence of product in well:

_____
Name Model #

☐ Interstitial monitoring. Provide name and model number of interstitial monitoring devise:

_____
Name Model #

Wisconsin Department of
Industry, Labor and
Human Relations
Safety & Buildings Division

UNDERGROUND STORAGE TANK SYSTEM

USE PERMIT

THIS PERMIT MUST BE KEPT ON SITE AVAILABLE FOR INSPECTION AT ALL TIMES

Bureau of Petroleum Inspection
And Fire Protection
P O. Box 7969
Madison, WI 53707
Telephone (608) 267-9725

This tank system has met the requirements of Wisconsin Administrative Code Chapter ILHR 10. The three year use period has been approved with the issuance of this Use Permit. This permit may be revoked for failure to maintain compliance with the requirements of ILHR 10. See reverse side for codes used below.

Tank ID Number:	Permit Effective On:	Permit Expires As Of:	Tank Installation Date:	Gallons:	User:	Tank Construction:

Mailing Address:

Tank Double Walled:	Tank Overfill Protection:	Tank Spill Containment:
Tank Leak Detection:	Piping Construction:	Piping Double Walled:
Piping System Type:	Piping Leak Detection:	Tank Contents:
Permitted Tank Located At:		

SBD-7659 (R. 06/91)

CODE KEY

Type of User: 01-Gas Station; 02-Bulk Storage; 03-Utility; 04-Mercantile; 05-Industrial; 06-Government; 07-School; 08-Residential 09-Agriculture; 10-Other

Tank Construction; 01-Bare Steel; 02-Cathodically Protected and Coated Steel (a.-Sacrificial Anodes or b.-Impressed Current); 03-Coated Steel; 04-Fiberglass; 05-other; 06-Relined; 07-Steel - Fiberglass Reinforced Plastic Composite; 09-Unknown

Tank Leak Detection Method: 01-Automatic Tank Gauging; 02-Vapor Monitoring; 03-Groundwater Monitoring; 04-Inventory Control and Tightness Testing; 05-Interstitial Monitoring; 06-Not Required At Present 07-Manual Tank Gauging (only for tanks of 1,000 gallons or less)

Piping Construction: 01-Bare Steel; 02-Cathodically Protected and Coated or Wrapped Steel (a.-Sacrificial Anodes or b.-Impressed Current); 03-Coated Steel; 04-Fiberglass; 05-other; 09-Unknown

Piping System Type: 01-Pressurized Piping With: a.-Auto Shutoff; b.-Alarm; or c.-Flow Restrictor; 02-Suction Piping With Check Valve at Tank; 03-Suction Piping With Check Valve at Pump and Inspectable

Piping Leak Detection Method: 01-Vapor Monitoring; 02-Interstitial Monitoring; 03-Groundwater Monitoring; 04-Tightness Testing; 05-Line Leak Detector; 06-Not Required

Tank Contents: 01-Diesel; 02-Leaded; 03-Unleaded; 04-Fuel Oil; 05-Gasohol; 06-Other; 07-Empty; 08-Sand/Gravel/Slurry; 09-Unknown; 10-Premix; 11-Waste Oil; 13-Chemical; 14-Kerosene; 15-Aviation

3519

CHECKLIST FOR UNDERGROUND TANK INSTALLATION

Complete one form for each tank and related piping.

Tank ID #: For Office Use Only

Wisconsin Department of Industry, Labor and Human Relations
Safety & Buildings Division
Fire Prevention & Underground Storage Tank Section
P. O. Box 7969, Madison, WI 53707

This checklist covers installation of: ☐ Tank; ☐ Piping; ☐ Spill Containment; ☐ Overfill Protection; ☐ Leak Detection

A. IDENTIFICATION: (Please Print)

1. Installation Name			2. Owner Name			
Installation Street Address			Owner Street Address			
☐ City ☐ Village ☐ Town of:			☐ City ☐ Village ☐ Town of:		State	Zip Code
State	Zip Code	County	County	Telephone No. (include area code) ( )		
3. Installation Company Name		Installation Company Street Address		State	Zip Code	
Company Telephone No. (include area code) ( )		Certified Installer Name		Installer Certification No.		

B. PLAN APPROVAL

	INSTALLER VERIFIED	INSPECTOR VERIFIED	NA
1. Plans have been submitted and approved.	☐	☐	☐

2. State plan number (if applicable) is _____
3. Tank Capacity: _____ gallons. Tank contents, if known: _____

C. TANK CONSTRUCTION

1. Tank is new and carries UL or other national testing label.	☐	☐	☐
2. Tank is used, but has been recertified to meet the EPA new tank standard.	☐	☐	☐
3. Tank is corrosion protected (☐ Cathodically protected steel, ☐ fiberglass or ☐ composite tank) and matches the equipment listed in the plan review.	☐	☐	☐
4. Test stations have been installed for monitoring cathodic protection on the tank.	☐	☐	☐
5. Gasoline and other Class I flammable tank vents discharge at least 12 feet above ground level, discharge only upward,and do not terminate under eaves or near a building opening.	☐	☐	☐
6. Fuel oil, diesel or other Class II or III A liquid storage tank vents are at least 4 feet above ground level.	☐	☐	☐
7. Overfill protection device is installed and matches plan submittal.	☐	☐	☐
8. Spill containment device installed.	☐	☐	☐

D. TANK HANDLING AND TESTING

1. Tank was lifted using lifting lugs, no chains or slings were placed around the tank shell.	☐	☐	☐
2. Tank coating was inspected and any damage to the coating repaired.	☐	☐	☐
3. Preinstallation test of single wall tank conducted by pressurizing tank with 3-5 psig air pressure, soaping all surfaces, seams, and fittings and inspecting for bubbles.	☐	☐	☐
or			
Preinstallation test of double-walled tank: pressurize inner tank to a maximum of 5 psig, seal inner tank and disconnect external air supply, monitor for one hour. After one hour, pressurize the interstitial space with a max 5 psig air from the inner tank and use a second gauge for monitoring the pressure. Soap all surfaces, seams and fittings and inspect for bubbles.	☐	☐	☐
4. Tank tested after backfilling through precision test, approved tank gauge or interstitial monitor.	☐	☐	☐
5. Tank gauge or interstitial monitor verified as operative	☐	☐	☐

E. TANK SITE AND BACKFILL

1. Tank located a minimum of 3 feet from property lines and 1 foot from buildings.	☐	☐	☐
2. Tank is spaced a minimum of 2 feet from any other tank.	☐	☐	☐
3. Backfill for steel or fiberglass clad steel tank is clean, washed, well granulated sand, crushed rock, or pea gravel no larger than 3/4 inch.	☐	☐	☐
4. Backfill for fiberglass tank is pea gravel naturally round with minimum diameter of 1/8 inch and maximum size of 3/4 inch or crushed rock or gravel between 1/8 and 1/2 inch in size.	☐	☐	☐
5. Minimum of 1 foot of backfill extended beyond perimeter of tank.	☐	☐	☐
6. Minimum of 1 foot of compacted backfill in bottom of excavation (If hold down pads are used, bedding may be reduced to 6 inches.)	☐	☐	☐
7. Bottom hold down pads used.	☐	☐	☐
a. Fiberglass tank with 1 foot of compacted backfill over top of pad.	☐	☐	☐
b. Steel tank with 6 inches of compacted backfill over top of pad.	☐	☐	☐
8. Backfill material placed over tank to a depth of at least 1 foot.	☐	☐	☐

The information you provide may be used by other government agency programs [Privacy Law, s. 15.04 (1)(m)]

SBD-6294 (R. 01/94)

- CONTINUE ON NEXT PAGE -

E. TANK SITE AND BACKFILL (continued)	INSTALLER VERIFIED	INSPECTOR VERIFIED	NA
9. Backfill compaction is adequate to securely and evenly support the tank and prevent movement/settlement.	☐	☐	☐
10. Excavation is in a bog, swampy area or landfill and a filter fabric was used to prevent the migration of the backfill material.	☐	☐	☐
11. Tank in area of vehicle traffic, 3 feet of earth cover or 18 inches of earth plus 6 inches of reinforced concrete or 8 inches of asphalt.	☐	☐	☐
12. Tank in area not subject to traffic, a minimum of 2 feet of earth or 1 foot of earth plus 4 inches of reinforced concrete or 6 inches of asphalt.	☐	☐	☐
F. TANK ANCHORAGE			
1. Installation is in an area of high water table or subject to flooding and tank is anchored.	☐	☐	☐
a. Anchor straps for fiberglass tank were nonmetallic and were placed according to manufacturer's specifications.	☐	☐	☐
b. Anchor straps for steel tank were either nonmetallic or electrically isolated from the tank structure. (All metal fittings are protected from corrosion.).	☐	☐	☐
c. Mid anchoring with non conductive material between tank and concrete.	☐	☐	☐
G. PIPING (Indicate whether piping is ☐ Fiberglass or ☐ Steel; then check one of the types below before proceeding to answer 1 - 15.)			
☐ Pressurized piping with ☐ auto shutoff, ☐ alarm or ☐ flow restrictor			
☐ Suction piping with check valve at tank			
☐ Suction piping with check valve at pump and inspectable.			
1. Piping is sloped back to tank (1/8 INCH per foot).	☐	☐	☐
2. Piping is evenly and adequately supported by at least 6 inches of backfill bedding.	☐	☐	☐
3. Piping trench provides at least 18 inches of compacted backfill and paving on top of piping.	☐	☐	☐
4. Pipes are separated by at least twice the pipe diameter.	☐	☐	☐
5. Pipes are separated from the trench excavation sidewalls by at least 6 inches.	☐	☐	☐
6. Piping inspected for damage to pipe or coating.	☐	☐	☐
7. Metal piping is at least schedule 40 black steel or galvanized pipe, and is wrapped or coated.	☐	☐	☐
8. Fittings and couplings are extra-heavy malleable iron screw-type, Schedule 40 or better.	☐	☐	☐
9. Piping was isolated from the tank and dispenser and tested at 150% of operating pressure of the system (but not less than 50 psi) for 1 hour prior to and after backfilling.	☐	☐	☐
10. After backfilling, piping was isolated from the tank and dispenser and precision tested at 110% of operating pressure but not less than 50 psig for 1 hour.	☐	☐	☐
11. Piping was isolated from the tank and dispenser and tested through another approved means prior to and after backfilling Indicate method(s) prior _____	☐	☐	☐
after _____	☐	☐	☐
12. Metal piping is protected from corrosion by ☐ cathodic protection or ☐ impressed current.	☐	☐	☐
13. Test stations have been installed for monitoring cathodic protection on piping.	☐	☐	☐
14. Flexible connectors are used at the top of tank, between tank and vent pipe, below the dispenser and also where less than 4 feet of run exists between changes in direction with fiberglass piping.	☐	☐	☐
15. Dispensers, pumps, check valves, etc., not cathodically protected are electrically isolated from metallic piping.	☐	☐	☐

H. LEAK DETECTION (Check which applies under both TANK and PIPING)

1. Tank
   ☐ Tightness testing and inventory control ☐ Automatic tank gauging ☐ Vapor monitoring ☐ Groundwater monitoring
   ☐ Interstitial monitoring ☐ Manual Tank Gauging (only for tanks of 1,000 gallons or less)
2. Piping (pressurized or suction with check valve at tank)
   ☐ Tightness testing ☐ Automatic line leak detectors ☐ Vapor monitoring
   ☐ Groundwater monitoring ☐ Interstitial monitoring

I. INSPECTOR INFORMATION

Inspector Signature: _____ Inspector #: _____ Local Operator #: _____

Date Signed: _____ Fire department providing coverage: _____ FDID #: _____

J. INSTALLER CERTIFICATION

I certify that the tank and related piping was installed according to the manufacturer's instructions and comply with one of the following standards: ☐ API 1615, ☐ PEI RP100 or ☐ ANSI B31.4.

Installer Signature _____ Date Signed _____

TANK INVENTORY FORM SBD-7437 SIGNED BY THE OWNER MUST BE SUBMITTED WITH EACH INSTALLMENT CHECKLIST.

SAFETY AND BUILDINGS

A10.17 EXISTING UNDERGROUND TANK USE PERMIT. The following forms (SBD-7658 and SBD-7659) are referred to in this section. Copies of these forms are available from the Division of Safety and Buildings, P.O. Box 7969, Madison, Wisconsin 53707, or from the local fire department or authorized agent.

Wisconsin Department of Industry, Labor and Human Relations

UNDERGROUND STORAGE TANK SYSTEM USE PERMIT APPLICATION

If this system is permanently closed, complete only the TANK CLOSURE INFORMATION section on this page.

Send Completed Form To:
Safety and Buildings Division
Bureau of Petroleum Inspection and Fire Protection
P.O. Box 7969, Madison, WI 53707

Tank ID Number	1. Tank Leak Detection Compliance Date	2. Tank Installation Date	3. Gallons	4. User

5. Tank Construction	6. Tank Double Walled?	7. Tank Overfill Protection:	8. Tank Spill Containment:	9. Tank Leak Detection Method

10. Piping Construction	11. Piping Double Walled?	12. Piping System Type	13. Piping Leak Detection	14. Tank Contents

If the site name and/or address appearing above is incorrect in any way, please indicate corrections below:

If the owner/mailing name and/or address appearing above is incorrect in any way, please indicate corrections below:

TANK SYSTEM DESCRIPTION VERIFICATION

A Use Permit must be obtained for the continued operation of the underground petroleum storage tank system described on this application. **You must review and verify the pre-printed codes and descriptions appearing above in boxes 2 thru 14. If any box has no code or the pre-printed code is incorrect, provide the correct code for that box from the Code Key below.** PLEASE NOTE: "TANK CONSTRUCTION" IN BOX 5, "PIPING CONSTRUCTION" IN BOX 10 AND "PIPING SYSTEM TYPE" IN BOX 12 MUST BE COMPLETED. IF THIS INFORMATION IS NOT PROVIDED, A USE PERMIT CANNOT BE ISSUED. If this system is permanently closed, complete only the TANK CLOSURE INFORMATION section on this page.

CODE KEY

Type of User:	01-Gas Station; 02-Bulk Storage; 03-Utility; 04-Mercantile; 05-Industrial; 06-Government; 07-School; 08-Residential 09-Agriculture; 10-Other
Tank Construction;	01-Bare Steel; 02-Cathodically Protected and Coated Steel (a.-Sacrificial Anodes or b.-Impressed Current); 03-Coated Steel; 04-Fiberglass; 05-other; 06-Relined; 07-Steel - Fiberglass Reinforced Plastic Composite
Tank Leak Detection Method:	01-Automatic Tank Gauging; 02-Vapor Monitoring; 03-Groundwater Monitoring; 04-Inventory Control and Tightness Testing; 05-Interstitial Monitoring; 06-Not Required At Present; 07-Manual Tank Gauging (up to 1,000 gallons only)
Piping Construction:	01-Bare Steel; 02-Cathodically Protected and Coated or Wrapped Steel (a.-Sacrificial Anodes or b.-Impressed Current); 03-Coated Steel; 04-Fiberglass; 05-other
Piping System Type:	01-Pressurized Piping With: a.-Auto Shutoff; b.-Alarm; or c.-Flow Restrictor; 02-Suction Piping With Check Valve at Tank; 03-Suction Piping With Check Valve at Pump and Inspectable; 04-Not Needed If Waste Oil Tank
Piping Leak Detection Method:	01-Vapor Monitoring; 02-Interstitial Monitoring; 03-Groundwater Monitoring; 04-Tightness Testing; 05-Line Leak Detector; 06-Not Required
Tank Contents:	01-Diesel; 02-Leaded; 03-Unleaded; 04-Fuel Oil; 05-Gasohol; 06-Other; 07-Empty; 08-Sand/Gravel/Slurry; 10-Premix; 11-Waste Oil; 12-Propane; 13-Chemical; 14-Kerosene; 15-Aviation

TANK CLOSURE INFORMATION

Indicate whether tank was: ☐ Removed ☐ Filled With Inert Material	Give Date Tank Was Closed (mo/day/yr):	Has closure assessment been completed? ☐ Yes ☐ No
Signature of Owner or Operator:		Date Signed:

IMPORTANT INSTRUCTIONS FOR COMPLETION OF REVERSE SIDE

- If the "leak detection" compliance date indicated in box 1 above has been reached, Section A on the reverse side must be completed to verify compliance with leak detection code requirements.
- If box 12 above shows code 01 or if you have pressurized piping but had not previously indicated such, you must complete Section B to verify compliance with pressurized piping code requirements.
- If box 12 above shows code 02, or if you have a suction system with the check valve at the tank but previously had not reported it, the compliance date for leak detection on your piping is the same as that for the tank. If you have reached the tank leak detection compliance date indicated in box 1 above, you must complete Section C on the reverse side.

COMPLETE ALL SECTIONS ON REVERSE SIDE →

SBD 7658 (R 12/91)

A. Leak Detection Verification For Tank

Indicate which leak detection method(s) you are using. Check all applicable items and attach requested information.

☐ Tightness testing and inventory control. Attach a copy of the report on the latest tank test.

☐ Vapor monitoring. Attach a plot plan drawn to scale (scale not smaller than 1" = 20') showing the location of tanks and associated monitoring wells. Provide the name and model number of the device used to monitor for presence of vapors: _____
Name Model #

☐ Groundwater monitoring. Attach a plot plan drawn to scale (scale not smaller than 1" = 20') showing the location of tanks and associated monitoring wells. Provide depth to groundwater: _____ feet. Provide name and model number of device/system used to monitor for presence of product in well:

_____
Name Model #

☐ Interstitial monitoring. Provide name and model number of interstitial monitoring device:

_____
Name Model #

☐ Automatic tank gauging. Provide name and model # of gauge system:

_____
Name Model #

☐ Manual tank gauging (tanks of 1,000 gallons or less in size only).

B. Pressurized Piping Systems Must Have Leak Detection Installed By 12/22/90. System requires both:

Flow restrictor, automatic shutoff or continuous alarm; provide the name and model number of system installed:

_____
Name Model #

AND

A leak detection method from the following list; check all items that apply and attach requested information.

☐ Tightness testing. Attach a copy of the report on the latest test of the piping system.

☐ Vapor monitoring. Attach a plot plan drawn to scale (scale not smaller than 1" = 20') showing the location of piping and associated monitoring wells. Provide the name and model number of the device used to monitor for presence of vapors: _____
Name Model #

☐ Groundwater monitoring. Attach a plot plan drawn to scale (scale not smaller than 1" = 20') showing the location of piping and associated monitoring wells. Provide depth to groundwater: _____ feet. Provide name and model number of device/system used to monitor for presence of product in well:

_____
Name Model #

☐ Interstitial monitoring. Provide name and model number of interstitial monitoring device:

_____
Name Model #

☐ Line leak detector. Provide name and model # of device:

_____
Name Model #

C. Leak Detection For Piping

Suction piping with the check valve at the tank: indicate which method(s) of leak detection you are using. Check all items that apply and attach requested information. Leak detection deadlines for suction piping (with the check valve at the tank) match that of the tank system.

☐ Tightness testing. Attach a copy of the report on the latest test of the system.

☐ Vapor monitoring. Attach a plot plan drawn to scale (scale not smaller than 1" = 20') showing the location of lines and associated monitoring wells. Provide the name and model number of the device used to monitor for presence of vapors: _____
Name Model #

☐ Groundwater monitoring. Attach a plot plan drawn to scale (scale not smaller than 1" = 20') showing the location of piping and associated monitoring wells. Provide depth to groundwater: _____ feet. Provide name and model number of device/system used to monitor for presence of product in well:

_____
Name Model #

☐ Interstitial monitoring. Provide name and model number of interstitial monitoring devise:

_____
Name Model #

Wisconsin Department of
Industry, Labor and
Human Relations
Safety & Buildings Division

UNDERGROUND STORAGE TANK SYSTEM

USE PERMIT

THIS PERMIT MUST BE KEPT ON SITE
AVAILABLE FOR INSPECTION AT ALL TIMES

Bureau of Petroleum Inspection
And Fire Protection
P.O. Box 7969
Madison, WI 53707
Telephone (608) 267-9725

This tank system has met the requirements of Wisconsin Administrative Code Chapter ILHR 10. The three year use period has been approved with the issuance of this Use Permit. This permit may be revoked for failure to maintain compliance with the requirements of ILHR 10. **See reverse side for codes used below.**

Tank ID Number:	Permit Effective On:	Permit Expires As Of:	Tank Installation Date:	Gallons:	User:	Tank Construction:

Mailing Address:

Tank Double Walled:	Tank Overfill Protection:	Tank Spill Containment:
Tank Leak Detection:	Piping Construction:	Piping Double Walled:
Piping System Type:	Piping Leak Detection:	Tank Contents:
Permitted Tank Located At:		

S8D-7659 (R. 06/91)

CODE KEY

Type of User: 01-Gas Station; 02-Bulk Storage; 03-Utility; 04-Mercantile; 05-Industrial; 06-Government; 07-School; 08-Residential 09-Agriculture; 10-Other

Tank Construction; 01-Bare Steel; 02-Cathodically Protected and Coated Steel (a.-Sacrificial Anodes or b.-Impressed Current); 03-Coated Steel; 04-Fiberglass; 05-other; 06-Relined; 07-Steel - Fiberglass Reinforced Plastic Composite; 09-Unknown

Tank Leak Detection Method: 01-Automatic Tank Gauging; 02-Vapor Monitoring; 03-Groundwater Monitoring; 04-Inventory Control and Tightness Testing; 05-Interstitial Monitoring; 06-Not Required At Present 07-Manual Tank Gauging (only for tanks of 1,000 gallons or less)

Piping Construction: 01-Bare Steel; 02-Cathodically Protected and Coated or Wrapped Steel (a.-Sacrificial Anodes or b.-Impressed Current); 03-Coated Steel; 04-Fiberglass; 05-other; 09-Unknown

Piping System Type: 01-Pressurized Piping With: a.-Auto Shutoff; b.-Alarm; or c.-Flow Restrictor; 02-Suction Piping With Check Valve at Tank; 03-Suction Piping With Check Valve at Pump and Inspectable

Piping Leak Detection Method: 01-Vapor Monitoring; 02-Interstitial Monitoring; 03-Groundwater Monitoring; 04-Tightness Testing; 05-Line Leak Detector; 06-Not Required

Tank Contents: 01-Diesel; 02-Leaded; 03-Unleaded; 04-Fuel Oil; 05-Gasohol; 06-Other; 07-Empty; 08-Sand/Gravel/Slurry; 09-Unknown; 10-Premix; 11-Waste Oil; 13-Chemical; 14-Kerosene; 15-Aviation

A10.18 (2) INSPECTION BEFORE COVERING. The following checklist (form SBD-6294) is provided to assist fire department inspectors or authorized agents in making inspections of underground storage tank installations before covering.

3519

CHECKLIST FOR UNDERGROUND TANK INSTALLATION

Complete one form for each tank and related piping.

Wisconsin Department of Industry, Labor and Human Relations
Safety & Buildings Division
Fire Prevention & Underground Storage Tank Section
P. O. Box 7969, Madison, WI 53707

Tank ID #: For Office Use Only

This checklist covers installation of: ☐ Tank; ☐ Piping; ☐ Spill Containment; ☐ Overfill Protection; ☐ Leak Detection

A. IDENTIFICATION: (Please Print)

1. Installation Name			2. Owner Name			
Installation Street Address			Owner Street Address			
☐ City ☐ Village ☐ Town of:			☐ City ☐ Village ☐ Town of:		State	Zip Code
State	Zip Code	County	County	Telephone No. (include area code) ( )		
3. Installation Company Name		Installation Company Street Address		State	Zip Code	
Company Telephone No. (include area code) ( )		Certified Installer Name		Installer Certification No.		

B. PLAN APPROVAL

	INSTALLER VERIFIED	INSPECTOR VERIFIED	NA
1. Plans have been submitted and approved.	☐	☐	☐
2. State plan number (if applicable) is _____			
3. Tank Capacity: _____ gallons. Tank contents, if known: _____			

C. TANK CONSTRUCTION

1. Tank is new and carries UL or other national testing label.	☐	☐	☐
2. Tank is used, but has been recertified to meet the EPA new tank standard.	☐	☐	☐
3. Tank is corrosion protected (☐ Cathodically protected steel, ☐ fiberglass or ☐ composite tank) and matches the equipment listed in the plan review.	☐	☐	☐
4. Test stations have been installed for monitoring cathodic protection on the tank.	☐	☐	☐
5. Gasoline and other Class I flammable tank vents discharge at least 12 feet above ground level, discharge only upward,and do not terminate under eaves or near a building opening.	☐	☐	☐
6. Fuel oil, diesel or other Class II or III A liquid storage tank vents are at least 4 feet above ground level.	☐	☐	☐
7. Overfill protection device is installed and matches plan submittal.	☐	☐	☐
8. Spill containment device installed.	☐	☐	☐

D. TANK HANDLING AND TESTING

1. Tank was lifted using lifting lugs, no chains or slings were placed around the tank shell.	☐	☐	☐
2. Tank coating was inspected and any damage to the coating repaired.	☐	☐	☐
3. Preinstallation test of single wall tank conducted by pressurizing tank with 3-5 psig air pressure, soaping all surfaces, seams, and fittings and inspecting for bubbles.	☐	☐	☐
or			
Preinstallation test of double-walled tank: pressurize inner tank to a maximum of 5 psig, seal inner tank and disconnect external air supply, monitor for one hour. After one hour, pressurize the interstitial space with a max 5 psig air from the inner tank and use a second gauge for monitoring the pressure. Soap all surfaces, seams and fittings and inspect for bubbles.	☐	☐	☐
4. Tank tested after backfilling through precision test, approved tank gauge or interstitial monitor.	☐	☐	☐
5. Tank gauge or interstitial monitor verified as operative	☐	☐	☐

E. TANK SITE AND BACKFILL

1. Tank located a minimum of 3 feet from property lines and 1 foot from buildings.	☐	☐	☐
2. Tank is spaced a minimum of 2 feet from any other tank.	☐	☐	☐
3. Backfill for steel or fiberglass clad steel tank is clean, washed, well granulated sand, crushed rock, or pea gravel no larger than 3/4 inch.	☐	☐	☐
4. Backfill for fiberglass tank is pea gravel naturally round with minimum diameter of 1/8 inch and maximum size of 3/4 inch or crushed rock or gravel between 1/8 and 1/2 inch in size.	☐	☐	☐
5. Minimum of 1 foot of backfill extended beyond perimeter of tank.	☐	☐	☐
6. Minimum of 1 foot of compacted backfill in bottom of excavation (If hold down pads are used, bedding may be reduced to 6 inches.)	☐	☐	☐
7. Bottom hold down pads used.	☐	☐	☐
a. Fiberglass tank with 1 foot of compacted backfill over top of pad.	☐	☐	☐
b. Steel tank with 6 inches of compacted backfill over top of pad.	☐	☐	☐
8. Backfill material placed over tank to a depth of at least 1 foot.	☐	☐	☐

The information you provide may be used by other government agency programs [Privacy Law, s. 15.04 (1)(m)]

SBD-6294 (R. 01/94)

- CONTINUE ON NEXT PAGE -

	INSTALLER VERIFIED	INSPECTOR VERIFIED	NA
E. TANK SITE AND BACKFILL (continued)			
9. Backfill compaction is adequate to securely and evenly support the tank and prevent movement/settlement.	☐	☐	☐
10. Excavation is in a bog, swampy area or landfill and a filter fabric was used to prevent the migration of the backfill material.	☐	☐	☐
11. Tank in area of vehicle traffic, 3 feet of earth cover or 18 inches of earth plus 6 inches of reinforced concrete or 8 inches of asphalt.	☐	☐	☐
12. Tank in area not subject to traffic, a minimum of 2 feet of earth or 1 foot of earth plus 4 inches of reinforced concrete or 6 inches of asphalt.	☐	☐	☐
F. TANK ANCHORAGE			
1. Installation is in an area of high water table or subject to flooding and tank is anchored.	☐	☐	☐
a. Anchor straps for fiberglass tank were nonmetallic and were placed according to manufacturer's specifications.	☐	☐	☐
b. Anchor straps for steel tank were either nonmetallic or electrically isolated from the tank structure. (All metal fittings are protected from corrosion.)	☐	☐	☐
c. Mid anchoring with non conductive material between tank and concrete.	☐	☐	☐
G. PIPING (Indicate whether piping is ☐ Fiberglass or ☐ Steel; then check one of the types below before proceeding to answer 1 - 15.)			
☐ Pressurized piping with ☐ auto shutoff, ☐ alarm or ☐ flow restrictor			
☐ Suction piping with check valve at tank			
☐ Suction piping with check valve at pump and inspectable.			
1. Piping is sloped back to tank (1/8 INCH per foot).	☐	☐	☐
2. Piping is evenly and adequately supported by at least 6 inches of backfill bedding.	☐	☐	☐
3. Piping trench provides at least 18 inches of compacted backfill and paving on top of piping.	☐	☐	☐
4. Pipes are separated by at least twice the pipe diameter.	☐	☐	☐
5. Pipes are separated from the trench excavation sidewalls by at least 6 inches.	☐	☐	☐
6. Piping inspected for damage to pipe or coating.	☐	☐	☐
7. Metal piping is at least schedule 40 black steel or galvanized pipe, and is wrapped or coated.	☐	☐	☐
8. Fittings and couplings are extra-heavy malleable iron screw-type, Schedule 40 or better.	☐	☐	☐
9. Piping was isolated from the tank and dispenser and tested at 150% of operating pressure of the system (but not less than 50 psi) for 1 hour prior to and after backfilling.	☐	☐	☐
10. After backfilling, piping was isolated from the tank and dispenser and precision tested at 110% of operating pressure but not less than 50 psig for 1 hour.	☐	☐	☐
11. Piping was isolated from the tank and dispenser and tested through another approved means prior to and after backfilling Indicate method(s) prior _____	☐	☐	☐
after _____	☐	☐	☐
12. Metal piping is protected from corrosion by ☐ cathodic protection or ☐ impressed current.	☐	☐	☐
13. Test stations have been installed for monitoring cathodic protection on piping.	☐	☐	☐
14. Flexible connectors are used at the top of tank, between tank and vent pipe, below the dispenser and also where less than 4 feet of run exists between changes in direction with fiberglass piping.	☐	☐	☐
15. Dispensers, pumps, check valves, etc., not cathodically protected are electrically isolated from metallic piping.	☐	☐	☐

H. LEAK DETECTION (Check which applies under both TANK and PIPING)

1. Tank
   ☐ Tightness testing and inventory control ☐ Automatic tank gauging ☐ Vapor monitoring ☐ Groundwater monitoring
   ☐ Interstitial monitoring ☐ Manual Tank Gauging (only for tanks of 1,000 gallons or less)

2. Piping (pressurized or suction with check valve at tank)
   ☐ Tightness testing ☐ Automatic line leak detectors ☐ Vapor monitoring
   ☐ Groundwater monitoring ☐ Interstitial monitoring

I. INSPECTOR INFORMATION

Inspector Signature: _____ Inspector #: _____ Local Operator #: _____

Date Signed: _____ Fire department providing coverage: _____ FDID #: _____

J. INSTALLER CERTIFICATION

I certify that the tank and related piping was installed according to the manufacturer's instructions and comply with one of the following standards: ☐ API 1615, ☐ PEI RP100 or ☐ ANSI B31.4.

Installer Signature _____ Date Signed _____

TANK INVENTORY FORM SBD-7437 SIGNED BY THE OWNER MUST BE SUBMITTED WITH EACH INSTALLMENT CHECKLIST.

SAFETY AND BUILDINGS

A10.22 PETITIONS FOR VARIANCE. The following form (SBD-9890) is referred to in this section. Copies of this form are available from the Division of Safety and Buildings, P.O. Box 7969, Madison, Wisconsin 53707, or from the local fire department or authorized agent.

Wisconsin Department of Industry, Labor and Human Relations

Dept. Use Only
Plan No. _____
Amount Paid _____

Petition For Variance Application

Safety & Buildings Division
201 E. Washington Ave.
P.O. Box 7969
Madison, WI 53707
Telephone: (608) 266-3151

Page 1 of _____

PLEASE TYPE OR PRINT CLEARLY - The information you provide may be used by other government agency programs [Privacy Law, s. 15.04(1)(m)].

1. Owner Information		2. Project Information	3. Designer Information	
Name		Building Occupancy Chapter(s) and Use	Designer	Registration #
Company Name		Tenant Name (if any)	Design Firm	
Number and Street		Project Location (number and street)	Number and Street	
City, State and Zip Code		☐ City ☐ Village ☐ Township of	City, State and Zip Code	
Contact Person		County of	Contact Person	
Telephone Number ( )	Fax Number ( )	Prop. ID # (tax parcel # - contact county)	Telephone Number ( )	Fax Number ( )

4. Plan Review Status

Review By: ☐ State ☐ Municipality

Plan Number _____

☐ On hold
☐ Preliminary design
☐ Approved, requesting revision
☐ Submitted with petition
☐ Already built
☐ Built according to older code but must be brought into compliance with current code
☐ Plan will be submitted after petition determination
☐ Other

5. State the code section being petitioned and the specific condition or issue you are requesting be covered under this petition for variance. _____

6. Reason why compliance with the code cannot be attained without the variance. _____

7. State your proposed means and rationale of providing equivalent degree of health, safety, or welfare as addressed by the code section petitioned. _____

8. List attachments to be considered as part of the petitioner's statements (i.e., model code sections, test reports, research articles, expert opinion, previously approved variances, pictures, plans, sketches, etc.)

Verification By Owner - Petition is valid only if notarized with affixed seal and accompanied by review fee (See Section ILHR 2.52 for complete fee information)

Note: Petitioner must be the owner of the building or project. Tenants, agents, designers, contractors, attorneys, etc., shall not sign petition unless Power of Attorney is submitted with the Petition for Variance Application.

_____, being duly sworn, I state as petitioner that I have read the foregoing petition and I believe it is true and that I have significant ownership rights to the subject building or project.
Petitioner's Name (type or print)

Petitioner's Signature	Subscribed and sworn to before me this date	Notary Public	My commission expires on

Complete Other Side

SBD-9890 (R 05/94)

Owner's Name	Project Location	Plan Number

Fire Department Position Statement

Page 2 of _____

To be completed for variances requested from ILHR 50-64, ILHR 10, and other fire related requirements

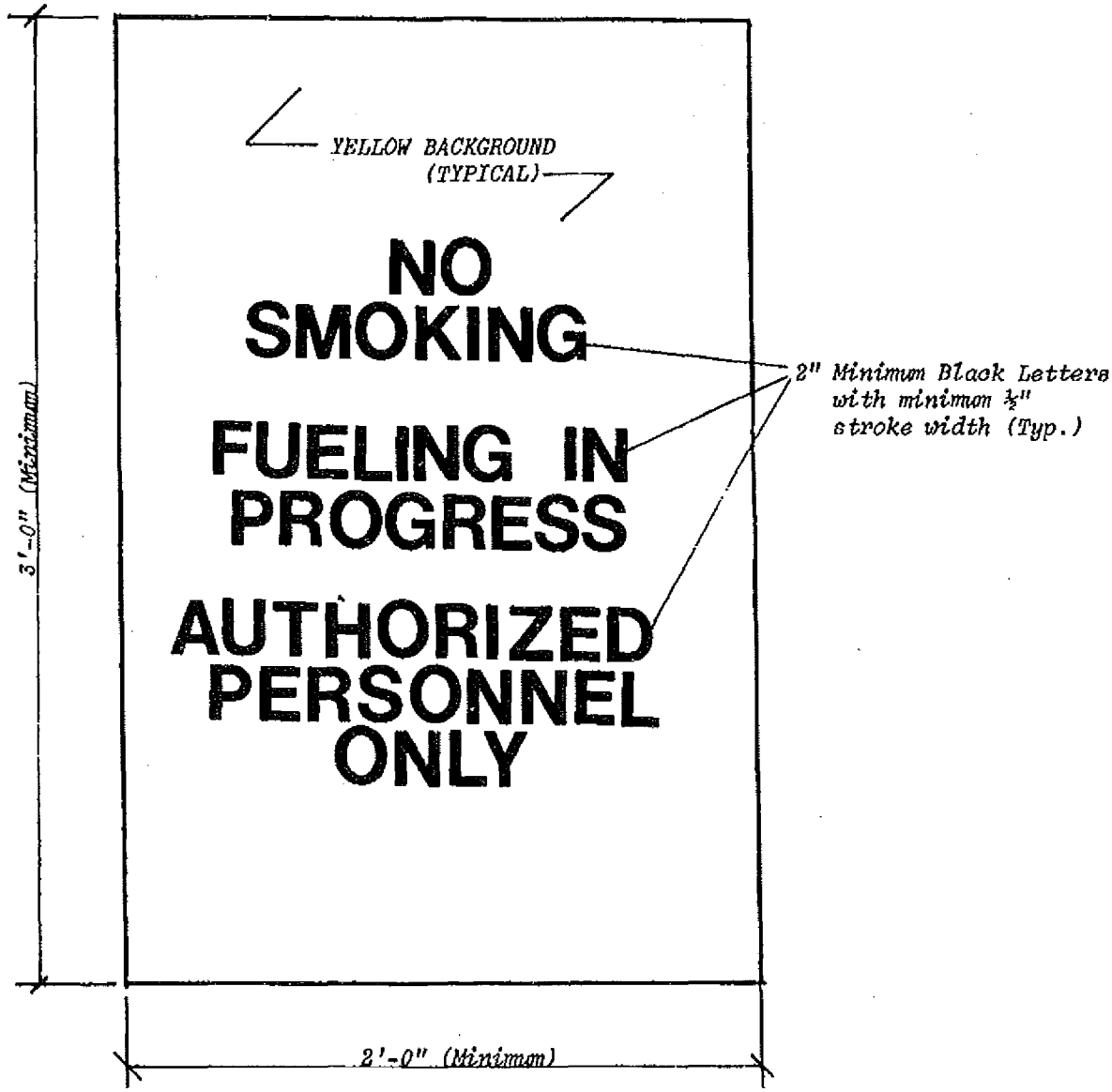
I have read the petition for variance and recommend: (check appropriate box)

☐ Approval ☐ Conditional Approval ☐ Denial ☐ No Comment

Explanation for recommendation including any conflicts with local rules and regulations and suggested conditions:

Fire Department Name and Address	
Fire Chief or Designee Name (type or print)	Telephone Number
Fire Chief or Designee Signature	Date Signed

A10.42 (3) (l) DISPENSING INTO MARINE CRAFT. The following illustration depicts a sign meeting the requirements of this section:



Note: The sign is not drawn to scale.

ILHR 10

APPENDIX B

CLOSURE ASSESSMENTS FOR UNDERGROUND STORAGE TANKS

I. Introduction

A. Purpose of the Closure Assessment:

The purpose of the closure assessment is to determine if contamination exists around an underground storage tank system. The assessment is to be carried out during the closure of federally regulated underground storage tanks (USTs) and/or piping or before a change-in-service.

Use of the procedures specified in this appendix will be acceptable to DILHR as compliance with the site assessment requirements of s.ILHR 10.734.

If contamination is discovered during the closure assessment, additional sampling or cleanup may be required by the Department of Natural Resources (DNR).

This guideline contains a number of attachments. These documents are designed, primarily, to provide information to the contractors or environmental consultants hired by the tank owner.

Before the closure of chemical tank systems, the DNR District Hazardous Waste Specialist must be contacted to determine if any special procedures or precautions must be taken.

B. Responsibilities During UST Closure Assessment:

The responsibilities that must be carried out during a tank closure are summarized below. The remainder of this document provides additional detail on these responsibilities. Although a contractor or environmental consultant may complete a number of the responsibilities, the owner is ultimately responsible for the successful completion of the closure assessment.

1. Notify the local fire chief, fire inspector or other DILHR authorized agent at least 15 days prior to closing the UST or piping.

2. Close the tank system in accordance with Attachment 1.

3. Complete and submit a Tank Inventory Form, (SBD-7437) for each tank.

4. Complete the sampling, analysis, and documentation requirements for closure assessments (Section IV - VIII).

5. Report immediately any spills, leaks or contaminations from the tank or piping to the Division of Emergency Government Hotline (608) 266-3232 or to the DNR (Section VII).

6. Manage all tank residues including remaining product, accumulations of sludge, contaminated water, etc. in accordance with DNR and DILHR requirements. (A fact sheet on sludge management is included as Attachment 4. A fact sheet on the management of remaining petroleum product is included as Attachment 5.)

7. Send a copy of the closure assessment report to DILHR and a copy to the DNR (Section IX). Include a duplicate copy of the inventory form(s) SBD-7437 which was submitted at closure.

II. Applicability

Site assessments must be performed whenever they are required by ch.ILHR 10. Use of these closure assessment procedures will be acceptable to DILHR for performance of a site assessment.

III. Preassessment Steps

A. Notify the Local Authority That has Jurisdiction:

You must notify in writing the local DILHR authorized agent at least 30 days in advance of beginning the UST system closure/closure assessment. (A shorter notification period may be allowed by the local authorized agent.)

Note: Always check for local ordinances which may govern tank closures. DILHR's rules are minimum standards and local ordinances may be more restrictive. At the time of notification, you should check with the local authorized agent to determine if he or she is willing to serve as a "neutral third party" during the assessment.

B. Arrange for a Neutral Third Party:

It is extremely helpful if a local DILHR authorized agent or a staff member from the DNR acts as a neutral third party at the closure and closure assessment. Thirty days in advance of the closure, it should be determined if a neutral third party will observe the closure and complete a closure checklist (form SBD-8951). Copies of a closure checklist are available from DILHR.

C. Develop a Closure Assessment Plan:

The closure assessment must follow a written plan which addresses the items listed in Sections IV to VI. The plan must be available at the site during the assessment for reference and inspection by the fire chief or local authority having jurisdiction.

Note: The responsibility for developing and following the plans listed in 1 - 3 below belongs to the owner or to the contractor, consultant, or individual acting as the owner's agent. The plans do not have to be submitted as part of the closure assessment report.

1. A *Field Procedures Plan* which addresses each item from Sections IV through VI.

2. A *Tank Cleaning and Tank Waste Management Plan* including the following elements:

a. Methods to be used to inert/vent and clean the tank that comply with ch. ILHR 10.

b. A plan for managing oil, gasoline, sludge, accumulated water or other tank contents. This plan must be in compliance with DNR solid and hazardous waste rules. Guidelines for managing tank wastes are available from DILHR or DNR.

Note: Specifications for tank removal may be found in API Standard 1604, NFPA 327 or other equivalent standards may be used.

c. A plan for transporting tanks which are to be removed from the ground and description of the final disposal point of the tank.

Note: The plan should include methods for protecting the safety and health of employes as addressed in Section 1910 — OSHA regulations.

3. A *Contingency Plan for Managing Contaminated Soils and Contaminated Excavation Water.*

The contaminated soils and excavation water management plan must meet minimum requirements established by the DNR.

IV. Sample Collection Requirements

A. Who Can Collect Soil Samples?

Persons collecting soil samples must be certified by DILHR for such work or under the supervision of a certified person.

B. Reporting of Sampling Qualifications

Proof of certification of persons responsible for collecting soil samples should be included in the closure assessment report as a standard attachment.

Closure assessment reports based upon samples collected by uncertified individuals will not be accepted by the DNR.

C. Soil Sample Locations:

1. Collect samples in the native soil, not in the backfill material around the tank. Samples must be collected from all of the following locations:

a. At points where strong odors or soil discolorations indicate the presence of contamination.

b. In native soil one to 3 feet beneath the bottom of each end of each tank in the excavation.

c. In the native soil one to 3 feet beneath the surface underneath each island on the supply side.

d. In native soil one to 3 feet beneath the surface every 20 feet, or segment thereof, along piping runs. In meeting this requirement, samples should preferentially be taken under swing joints, flex connectors, or pipe elbows.

Note: A minimum of 2 samples along the piping are required — one at the island and one along the piping run.

e. If a remote fill pipe is present, in native soil 5 feet beneath the fill opening.

f. When tanks are to be closed in place, soil sampling must still be performed. This may be accomplished by:

(1) Soil borings through the use of a drill rig. The borings must be located as close as possible (less than 3 feet) from each end of each tank. Soil borings along piping runs and pump islands must be located immediately adjacent to these structures. The borings must be completed, documented and abandoned in compliance with the requirements of ch. NR 141.

(2) If the tank(s) can be safely entered, and holes can be cut in the bottom, the soil beneath the tank(s) may be sampled through the holes. The holes must be located near each end of each tank.

Note: Although the closure of tanks in place may be allowed under certain circumstances in accordance with s.ILHR 10.732, a closure assessment is more difficult. The closure in place may also present problems if a remediation is necessary, in future property sales or in future construction.

g. If the water table is found within the tank or piping excavation, soil samples should be collected at the side walls of the excavation at the locations described in IV. C. 1. a. to e. above.

Water which is removed from the excavation must be sampled and disposed of properly.

2. If no closure assessment is being completed because of obvious contamination, this fact must be noted on the Tank Inventory Form (SBD-7437). Unless this is done, the owner may be identified as being in violation of the requirement to conduct an assessment at the time of tank closure.

If a closure assessment is not completed because of the identification of obvious contamination, all notifications and responsibilities, except for the submittal of the closure assessment, must be completed promptly.

D. Variances to Sampling Requirements:

If free product, soils with petroleum product odor or other conditions make it obvious that a site investigation and corrective action will be needed at a site, a closure assessment with soil sampling need not be completed. The contamination, however, must be immediately reported and a work plan for addressing the contamination developed and submitted to the DNR.

E. Field Instruments:

Field instruments including photoionization detectors, flame ionization detectors and portable gas chromatographs may be used for field screening of soil samples and to choose samples to be tested at a laboratory, thus potentially reducing the number of samples which must be laboratory analyzed. Field instruments must be used in accordance with DNR approved field instrument techniques (See Attachment 2).

If field instruments are used to screen soil samples, the Field Procedures Plan must describe all field screening procedures. Sample locations must be at least those specified in IV. C. When using field instruments, the following number of samples must still be sent to a laboratory:

Total Number of Samples Field Tested	Minimum Number of Samples to Laboratory
2-3	2 highest
4-7	3 highest
8 or more	5 highest

Even if no field samples show "detects," the minimum number of samples must still be sent to the laboratory for analysis.

V. Sample Collection Techniques

Soil samples must be collected using techniques for sample collection which are approved by the DNR. The most current versions of these methods are included as Attachment 3.

VI. Analytical Parameters and Methods

A. Parameters:

All soil samples sent to a laboratory must be analyzed for the parameters specified in Attachment 6. The results must be reported in parts per million on a dry weight basis.

B. Methods:

Soil analysis must be conducted by a laboratory certified under ch.NR 149 for purgeable organics. All analytical methods must be approved by the DNR.

VII. Documentation Requirements for USTs

Closure assessments must be properly documented to show that the requirements of the state code and federal rules are met or exceeded. The following are minimum documentation requirements:

A. Site Background Information:

A narrative describing the following site background information must be included:

1. Site owner and UST system owner/operator;

2. Environmental consultant;

3. Excavation contractor;

4. Description of past and present property use;

5. Number of tanks on site currently and any previously removed;

6. Results of previous geotechnical investigations;

7. Information on system leaks or repairs;

8. Site address and township and range descriptions to the quarter/quarter section; and

9. Third party present at closure and closure assessment (if any).

B. Site Location Map:

A map describing the location of the site relative to nearby towns, streets or major highways. Blow-ups of USGS topographic maps, highway maps, or plat maps with the site location clearly marked are acceptable as a site location map.

C. Site Layout/Plot Plan:

The site layout/plot plan must be to scale and provide the locations of tanks, piping, dispensers, utilities, buildings, numbered field and laboratory sampling points and other relevant data clearly marked. Standard scale shall be 1″ = 10 ′.

D. Tabulated Field and Laboratory Data:

All field screening data and laboratory results shall be presented in tabular form and correspond to the numbering on the site layout/plot plan. The field data submitted must also include the depths at which samples were taken and all of the information required in Attachment 2.

Copies of the laboratory analysis reports and chain of custody forms must also be submitted.

E. Narrative/Observations:

A narrative must be provided noting any presence of free product, soil staining, odors, soil types, depth of excavation, tank and piping conditions, possible leak locations, presence of free standing water in the excavation and other relevant observations.

F. Procedures:

Procedures for the following activities shall be reported:

1. Soil sampling techniques including sample collection and preservation methods, and sampling tool cleaning methods.

2. Field instrument methods including headspace techniques.

G. Photographs:

Photographs if submitted, must be either color photocopies, originals, or reprints of originals. Black and white photocopies of photographs are not acceptable for documenting site conditions.

H. Documentation of Tank, Waste Product, and Sludge Disposal:

The closure assessment report must document the reuse, recycling or disposal of the tank and piping and the transportation, storage and disposal of any residues removed from the tank and piping including product, water and sludge accumulations. Minimum documentation shall include:

1. Tank cleaning methods;

2. Names and addresses of firms or individuals removing or cleaning tanks and final destination of tank and waste products removed;

3. Types and quantities of materials collected during cleaning;

4. Methods and firms used to store, transport and dispose of tank waste residues;

5. Waste characterization data;

6. Copies of hazardous waste manifest and EPA generator identification numbers; and

7. Disposal or treatment of contaminated soil and backfill.

I. Copies of Tank Inventory Forms (SBD-7437) For All Tanks Being Closed

J. Other:

Other information requested by DNR or DILHR.

VIII. Release Reporting

If a release is detected during the tank closure, change-in-service or the laboratory analysis of soil samples, the owner/operator must *immediately* report the release. The local DNR District Office should be contacted first. If the

District Office can not be reached, the Division of Emergency Government Hotline should be called, (608)266-3232.

The necessary actions after reporting will vary depending on several factors including the degree of contamination, the depth to groundwater, and the nature of surrounding land use.

IX. Reporting of Tank Closures

The closure of an UST site must be reported to the Division of Safety and Buildings Division through the use of a Tank Inventory Form (SBD-7437). This form is to be completed and submitted to the address shown on the form, by the owner/operator immediately after closure. The submitted form will be used to update the Division's UST inventory.

Copies of the full closure assessment report must be submitted to both DILHR and DNR. A copy of the Tank Inventory Form that listed the tank closure must be submitted with the site assessment. DILHR's copy must be sent to:

Bureau of Petroleum Inspection and Fire Protection, P.O. Box 7969 Madison, Wisconsin 53707

DNR's copy, if contamination was previously reported, is to be sent to the local District Office. If a determination of contamination has not been made, the report is to be sent to:

Bureau of Solid and Hazardous Waste Management, Environmental Response and Repair Section, P.O. Box 7921, Madison, Wisconsin 53707

The DNR will review the closure assessments on a site-by-site basis. Based upon the soil sampling results and site characteristics, the DNR will determine if further investigation or corrective action is needed. The DNR will request additional information if the minimum documentation requirements identified in this guideline are not met.

NOTICE

Section 144.76 (2) (a), Stats., requires any person who possesses or controls a hazardous substance or who causes the discharge of a hazardous substance to immediately notify the DNR of the discharge.

Petroleum products and their constituents are hazardous substances. DNR must be immediately notified of all releases of petroleum products including leaking USTs, leaking piping and distribution systems and overfills.

Failure to notify the DNR of a discharge may have serious consequences including forfeitures of not less than $10 or more than $5000 for each violation (each day of continued violation is a separate offense) and ineligibility for reimbursement under the Petroleum Remedial Action Fund (PECFA) in accordance with s. 101.143, Stats.

ATTACHMENT 1
CLOSURE OF UNDERGROUND STORAGE TANKS

I. Notification: You must notify your local fire department 15 days prior to closing a tank(s).

II. Closure Requirements: Tank closures must follow the requirements of either A. or B. below:

Note: Although the closure of tanks in place is allowed under certain circumstances in accordance with s. ILHR 10.732, a closure assessment is more difficult. The closure in place may also present problems if a remediation is necessary, in future property sales or in future construction.

A. Closure by Removal and Scrapping

1. Obtain a qualified company with certified employes to close the tank system.

2. Remove all flammable or combustible liquids, including any tank wastes or sludge, from the tank and all connecting lines. Piping is to be drained back to the tank and any product collected. Piping that is left in place shall be capped or plugged.

3. Render the tank vapor free by filling with an inert gas such as nitrogen or carbon dioxide, to prevent potential ignition. An educator-type air mover or diffused blower may also be used.

4. Clean the tank and properly store, transport and dispose of the waste, which may be hazardous.

5. Secure written documentation of the destination of the hazardous waste and a receipt for the scrapped tank.

6. Leakage that is detected by visual observation, smell, field instruments or laboratory analysis must be reported to the DNR District Office or by calling the Division of Emergency Government Hotline, (608) 266-3232.

7. Tanks that are transported to a remote area for disposal shall have openings capped or plugged while in transit. Provide a 1/8" vent hole.

8. Conduct a closure assessment if required by Federal EPA Rules or DILHR or DNR rules.

9. File a Tank Inventory Form (SBD-7437) documenting the closure of each tank. Mail the forms to: Division of Safety and Buildings, P.O. Box 7969, Madison, Wisconsin 53707

B. Closure in Place by Filling with an Inert Material

1. Obtain a qualified company with certified employes to close the tank system.

2. Remove all flammable or combustible liquids, including any tank wastes or sludge, from the tank and all connecting lines. Piping is to be drained back to the tank and any product collected.

3. Render the tank vapor free by filling with an inert gas such as nitrogen or carbon dioxide, to prevent potential ignition. An educator-type air mover or diffused blower may also be used.

4. Excavate to the top of the tank.

5. Remove drop tube, fill pipe, gauge pipe, and other fixtures. The vent line is to remain in place until the tank is purged.

6. Clean the tank and properly store, transport and dispose of the waste, which may be hazardous.

7. Secure written documentation of the destination of the waste.

8. Leakage which is detected by visual observation, smell, field instruments or laboratory analysis must be reported to the DNR District Office or by calling the Division of Emergency Government Hotline, (608) 266-3232.

9. All piping left in place shall be capped or plugged.

10. Fill the tank completely with an inert solid material (sand, cyclone boiler slag or pea gravel is recommended). A tank can be opened up or filled through existing tank openings. It is important to fill the tank completely.

11. Remove the vent pipe and cap, and plug or seal all tank openings.

ATTACHMENT 2
CLOSURE OF UNDERGROUND STORAGE TANKS

Field instruments including photoionization detectors (PIDs), flame ionization detectors (FIDs) and gas chromatographs may be used to field screen soil and groundwater samples using headspace techniques outlined in this attachment. Other types of field instruments may not be used to screen soil samples in the field without prior approval of the DNR.

Note: The term "headspace sample" is used within this attachment to refer to samples collected for headspace analysis. Samples collected for laboratory analysis must be collected in glass or inert synthetic containers obtained from or approved by the certified laboratory which will analyze the samples.

A. General Requirements

1. A field instrument shall only be used by operators thoroughly familiar with the operation of the instrument. Operators shall, through training or education, be familiar with each of the following aspects of instrument use:

a. Principles of instrument operation;

b. Interferences;

c. Instrument sensitivity and linear range for petroleum constituents;

d. Calibration procedures;

e. General maintenance including filter cleaning;

f. Flame lighting techniques (for FIDs); and

g. Battery maintenance.

2. The calibration of field instruments shall be checked at least once per operating day using methods approved by the manufacturer. FIDs shall be checked using methane or other appropriate commercial gases. PIDs shall be checked using an appropriate field standard such as benzene or isobutylene.

3. All samples shall be analyzed in a manner consistent with written procedures which substantially conform to this guidance.

4. If a headspace sample is found through headspace analysis to be contaminated and laboratory analysis is needed to confirm the analysis, the sample sent to the laboratory shall be a split sample from the same sampling point where the headspace sample was collected. Split samples shall be collected and immediately preserved at the same time the headspace sample is collected. Headspace samples shall not be submitted to the laboratory for analysis.

5. PIDs must have a lamp energy of 10.6 electrovolts or greater.

B. Headspace Sample Containers and Analytical Preparation

1. All headspace sample containers (with the exception of new polyethylene bags) must be thoroughly cleaned using water/detergent solutions, methanol, or other appropriate solvents. Following washing, sample containers shall undergo multiple rinses using distilled water.

2. Headspace sample containers shall be constructed of glass or inert synthetics. Bottles and caps may be reused if tested in advance for Volitile Organic Compound (VOC) carryover. New one-quart plastic bags may also be used. (See E below.)

3. Headspace samples shall be collected in accordance with soil sampling requirements specified in Attachment 3.

4. Headspace sample containers are to be filled ½ to ¾ full. All headspace sample containers used at an UST site shall be the same size and shall be filled to the same volume. A headspace fill-line shall be marked on all containers.

5. Polyethylene bags which are used as headspace sample containers must be resealable freezer bags. A consistent sample/headspace ratio must be maintained. This can be achieved through the use of three-way valves (Imperial Eastman, Inc., No. 108-HD or equivalent) attached to the bags and sealed with Buna-N gaskets and lamp nuts. (See Figure below.) Once sealed, all bags shall be inflated to the same volume using a bicycle pump. Valves and connective tubing must be purged to prevent carryover from previous samples or replaced.

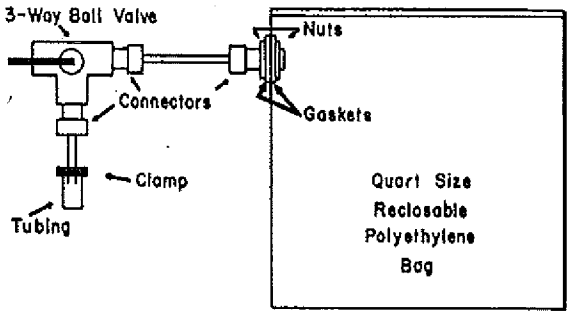


Figure source: Robbins, Gary A., R.D. Bristol and V.D. Roe. 1989. A Field Screening Method for Gasoline Contamination Using a Polyethylene Bag Sampling Stytem. Ground Water Monitoring Review. v. 9 no. 4, pp. 87 - 97.

6. Headspace sample containers shall be closed or covered immediately. Sample containers shall be covered with heavy gauge aluminum foil or a tight fitting cap or collar equipped with a tight fitting capped septum. Tight fitting caps or collars may be used only if the field instrument is capable of drawing a sample under tension for a long enough period to take a stable reading.

C. Headspace Sample Analysis

1. Once collected and sealed, headspace samples shall be agitated for at least 30 seconds to break soil clods and release vapors. Headspace samples in containers sealed with aluminum foil shall first be capped to allow agitation without damage to the foil seal. Seals shall be left in place during warming and shall not be pierced until the headspace is analyzed.

2. Headspace samples must be allowed to equilibrate prior to analysis. Minimum equilibration time shall conform to the specifications in the Table below.

Minimum Sample Headspace Equilibration Time

Ambient Outside Air Temperature at Time of Sample Collection	Minimum Amount of Time Sample Must Equilibrate at 70° F or Greater Temperature*
40°F	40 min.
41 - 55°F	20 min.
56 - 69°F	10 min.
70°F	5 min.

* Headspace samples shall be warmed out of direct sunlight by bringing them into a heated environment. At temperatures less than 55°F, headspace sample equilibration time can be reduced to 10 minutes through the use of a 70°F water bath.

3. Following equilibration, the sample headspace shall be analyzed promptly. The highest instrument reading shall be recorded. Time averaged readings may also be recorded, but they are not a substitute for the highest instrument reading. Meter "quenching" shall be recorded if experienced. Care shall be taken to insert the instrument tip through a single small hole in the foil seal (if used) and to measure headspace at one-half the distance between the foil seal and the sample surface.

Note: The DNR interprets FID responses to be petroleum related unless there is independent confirmation that the gas is not petroleum derived.

D. Documentation

If field instruments are used in conjunction with an UST closure assessment, the following minimum documentation standards must be adhered to:

1. Record all relevant ambient conditions. At a minimum, record:

a. Ambient outside temperature;

b. Temperature where samples are held during equilibration; and

c. Weather conditions (e.g., light rain, windy).

2. Record all relevant instrument conditions including:

a. Instrument make and model;

b. Date of last factory calibration;

c. Field calibration gas used and concentration;

d. Date and time of last field calibration;

e. Lamp energy in electrovolts (for PIDs);

f. Instrument gain setting;,

g. Erratic instrument readings; and

h. Cleaning or repairs performed in the field.

3. Record all field results including:

a. Headspace results as "instrument units as (calibration gas)." Example: 151 instrument units as benzene. DO NOT RECORD RESULTS AS CONCENTRATIONS UNLESS INSTRUMENT READINGS HAVE BEEN CALIBRATED AGAINST PREPARED SOIL/PETROLEUM PRODUCT CALIBRATION CURVES;

b. Relative sample moisture content. Example: Saturated, wet, moist, damp, or dry;

c. Record any noticeable petroleum product odor for any sample; and

d. Record instrument "quenching" caused by highly contaminated soils.

ATTACHMENT 3
SOIL SAMPLING REQUIREMENTS

Soil samples collected to comply with closure assessment requirements shall comply with the following requirements.

A. General Requirements

1. Soil samples must be collected in a manner which causes the least disturbance to the sample.

2. Composite samples are not to be collected for purposes of complying with the closure assessment requirements.

3. All soil samples shall be properly labeled with the sample number and collection date.

B. Soil Sampling Methods

1. If the UST system is closed by removal of the tank system from the ground, the following sample collection method must be used:

a. If the excavation, pipe trench or other sampling location can be entered in accordance with applicable OSHA regulations, samples may be collected using a hand auger or trowel.

b. If the excavation, pipe trench or other sampling location cannot be entered safely for sampling, a sample must be collected from the excavation using a hand auger extension or from a backhoe bucket.

2. If the UST system is closed in place, soil samples shall be collected through one of the following techniques:

a. If the tank is entered for cleaning and samples are collected through holes cut in the tank, they shall be collected using a hand-held soil auger or trowel.

b. If the samples are to be collected by drilling, then split spoon (barrel, tube) samplers or thin-walled (Shelby) samplers must be used when conditions permit. Grab samples from drill cuttings cannot be used unless undisturbed samples are impossible to collect.

3. Whenever hand-held tools are used to collect samples, the first 3 to 4 inches of soil must be scraped away immediately before sampling so that the sample is collected from a previously unexposed soil area.

4. All soil sampling tools must be thoroughly cleaned between all sampling points using water/detergent solutions, methanol, or other appropriate solvents.

C. Sample Containers for Laboratory Analysis

1. Samples shall be collected in glass or inert synthetic containers obtained from or approved by the certified laboratory which will analyze the samples. Polyethylene bags are not to be used for laboratory samples.

2. All sample containers shall have Teflonj or equivalent lined caps.

3. Sample containers shall be filled to the top such that no headspace remains.

4. The use of "wide mouth" vials is highly recommended.

D. Sample Handling

1. Seal and label samples prior to collection or immediately following collection.

2. Chill samples immediately using adequate quantities of ice, "blue ice," or equivalent.

Closure assessment documentation requires analytical laboratories to report sample temperatures. Improper storage resulting in sample warming could result in rejection of report results.

3. Follow chain of custody procedures.

4. Ship samples to analytical laboratory as soon as possible. Do not allow samples to be held so long that the maximum holding time is violated.

5. Unless otherwise specified, the maximum holding time for soil samples collected for total petroleum hydrocarbons (TPH) analysis is 14 days.

NOTE: HEADSPACE ANALYSIS USING FIELD INSTRUMENTS SHOULD NOT BE PERFORMED ON SAMPLES COLLECTED FOR LAB ANALYSIS. DUPLICATE SAMPLES SHOULD BE COLLECTED FOR HEADSPACE AND ANALYSIS.

ATTACHMENT 4
PETROLEUM TANK AND SLUDGE MANAGEMENT FACTSHEET

Many owners of underground storage tanks (USTs) are in the process of removing or upgrading their tanks to come into compliance with Environmental Protection Agency (EPA) regulations. Tank owners are responsible for properly managing any waste and product that remain in tanks which are being upgraded or removed.

The Department of Industry, Labor and Human Relations (DILHR) regulates petroleum products. See "Management of Petroleum Products at Tank Closure" for product handling guidance. DILHR considers tank contents less than 2 inches above the water line or the tank bottom to be wastes. These wastes are regulated by the DNR as either sludge or wastewater.

Tank sludge is a *solid waste* regulated under ch. 144, Stats. Depending on the products stored in tanks, it may also be *hazardous waste.* The state has the authority to impose civil or criminal penalties against tank owners, tank excavators, tank transporters, and tank salvagers who improperly dispose of tank sludge. The tank owner is responsible for classifying tank waste and making sure that it is properly handled and disposed of in compliance with the regulations. Wastewater is regulated by DNR in accordance with chs. 144 and 147, Stats.

An owner or operator who permits improper disposal may become *ineligible* for reimbursement under the state's Petroleum Storage Remedial Action Fund Act (PECFA), s. 101.143, Stats.

I. Wastewater Handling

Wastewater may be generated from either removal of tank condensate or from tank washing. It must be disposed of legally. Some tank excavation services include wastewater disposal. In sewered areas, you may contact the municipal wastewater treatment plant for disposal approval. In unsewered areas, you may contact a licensed septage hauler to transport wastewater to a wastewater treatment plant. Septage haulers may not transport flammable liquids. Identify an acceptable method to dispose of wastewater prior to excavating tanks.

II. Sludge Handling

Tank sludge is solid waste. Tank owners are responsible for determining if it is also hazardous waste, and, if so, characterizing and managing it in accordance with all state and federal regulations. This is a technical procedure which should be handled by an experienced hazardous waste contractor. If there is a possibility that at any time the tank contents were not clean fuels, additional analysis is required to identify residual wastes (PCBs, solvents, etc.). Complete analysis must be performed for waste oil tank sludges.

A. Tank sludge which has been classified as nonhazardous may be:

1. Removed by a waste oil service for recycling; or

2. Disposed of in a licensed sanitary landfill with a clay liner if the sludge does not contain free liquids as determined by the paint filter test (EPA SW-846 methods, update II). Free liquids may be absorbed by adding clean absorbent materials such as sawdust or vermiculite.

B. Tank sludge which has been classified as hazardous must be:

1. Transported to a licensed treatment, storage or disposal facility by a licensed hazardous waste transportation service; or

2. Manifested for transportation using a EPA identification (ID) number.

Note: ID numbers can be obtained by completing an EPA notification form (8700-12, rev. 10-88). This form can be obtained from DNR and must be submitted to: EPA Region V, Attn: EPA ID Number, P.O. Box A-3587, Chicago, Illinois 60690.

The EPA ID number should be requested six weeks prior to tank excavation. ID numbers can not be obtained from DNR.

C. Sludge which is being held on site should be handled as follows:

Sludge may be held on site while laboratory analysis is being completed or it may be transported immediately by a licensed transporter. Liquid tank sludge may be manifested as ignitible waste. Some tank excavation companies offer sludge analysis and sludge disposal services.

1. Consult the laboratory prior to sampling to determine proper sampling procedures and sample containers.

2. Carefully transfer the sludge from the tank to a metal drum. Seal the drum, affix the date and label it "Petroleum Tank Sludge."

3. To avoid contaminating nonhazardous sludge with hazardous sludge from other tanks, do not mix sludges from different tanks. Each sample jar and each sludge drum must be identified by matching numbers or descriptions.

4. Handle sludge with care. Anyone transferring sludge must have proper training and wear protective clothing and gloves.

5. Avoid spills. Spilling sludge may contaminate an otherwise clean tank excavation site. You must immediately report any spill to DNR and clean up the spill.

6. Maintain the drums containing sludge in good condition and in a secure location while waiting for laboratory results. Report the location of sludge drums in the tank closure assessment report which is provided to DILHR and DNR.

III. Tank Handling

1. Clean tanks on site. It is illegal to transport tanks containing residues of hazardous waste without a variance or emergency waiver from the DNR District office. Uncleaned tanks present an explosive risk to the public. Interstate carriers must obtain U.S. Department of Transportation approval to carry uncleaned tanks which have held hazardous materials.

2. Before removing sludge, cleaning tanks, and transporting tanks, fill the tanks with inert gases or properly vent them. OSHA confined space entry regulations apply.

3. Properly cleaned tanks may be recycled for scrap metal. DNR does not regulate scrap metal recycling.

IV. Additional Information Available

Tank Excavation Services:

Bureau of Petroleum Inspection & Fire Protection
Department of Industry, Labor and
Human Relations
P.O. Box 7969
Madison, Wisconsin 53707

Hazardous Waste Management Services:

Bureau of Solid & Hazardous Waste Management
Department of Natural Resources
P.O. Box 7921
Madison, Wisconsin 53707

Certified Laboratories:

Office of Technical Services
Department of Natural Resources
P.O. Box 7921
Madison, Wisconsin 53707

Additional FACTSHEETS Available from DNR:

"What is Hazardous Waste?"
"EPA Identification Number"
"Notification of Hazardous Waste Activity"

DNR factsheets and forms to obtain EPA identification numbers can also be obtained from DNR District Offices.

Note: This factsheet is a summary of regulations. It may not be used as a substitute for the statutes and codes administered by the Departments of Natural Resources; Industry, Labor and Human Relations; Transportation; or the federal government. Consult the regulations and statutes for specific information. A tank owner, tank excavator, tank transporter and tank salvager may all be liable for improper sludge transportation and disposal.

ATTACHMENT 5
MANAGEMENT OF PETROLEUM PRODUCTS AT TIME OF TANK CLOSURE

The closure of a petroleum product storage tank system will result in the necessity to manage the petroleum product remaining in the tank at closure. Petroleum product in this instance means products regulated by DILHR under ch. ILHR 48, the Petroleum Products Administrative Code.

Petroleum products which meet the standards of ch. ILHR 48 or will be blended to meet the standards fall within the jurisdiction of the Petroleum Inspection Program. Wastewater, product-water interfaces, petroleum directly above the product-water interface, and sludges fall within the scope of the DNR. The DNR factsheet titled "Petroleum Tank and Sludge Management Factsheet" should be referred to for guidance on waste management, (see Attachment 4.)

The following requirements have been established by the Petroleum Inspection Program for the handling and use of petroleum products generated at tank system closures. The requirements which have been established reflect the DNR's authority under ch. 168, Stats., and ch. ILHR 48.

1. To the extent practical, given the timing of the tank closure, as much product as possible should be used prior to tank closure.

2. Product for use or transfer to other facilities may be pumped off to a maximum depth of 2 inches above the water level in the tank or 2 inches above the tank bottom, whichever is higher.

3. Below the 2-inch level, all liquids and solids are considered a waste and are regulated by the DNR.

4. The removal and transfer of any product destined for use or return to a terminal or refinery must be transported by a tank vehicle which complies with the "Standards for Tank Vehicles for Flammable and Combustible Liquids."

5. Product which is removed from the tank above the 2-inch level may be:

a. Returned to a terminal slop tank, if a terminal will accept it; or

b. Returned to a refinery, if the company will accept it.

6. If the desire is to use the product taken from the tank system, it may be accomplished in the following ways:

a. Gasoline may be transferred to another facility for storage and use. Storage must meet the standards established in the ch. ILHR 10, Flammable and Combustible Liquids Code and the EPA rules;

b. Terminals or refineries may purchase gasolines and blend them with new gasoline at their facility. The gasoline purchased must be treated as "interface" and the blend rate must not exceed ½ of one percent;

c. Oils removed during tank closure must be downgraded to #2 fuel oil. Products classified as kerosene, #1 diesel, #2 diesel, #1 fuel oil or #2 fuel oil may be blended with new #2 fuel oil, not to exceed 50 percent, and used or sold for heating purposes;

d. Products heavier than #2 fuel oil may be blended with an equal or heavier stock, not to exceed 50 percent, and sold for or used for heating purposes; or

e. Oils may also be sold without blending for nonsensitive burner and heating use if the purchasers have established themselves as a qualified buyer/user with the DILHR District Petroleum Inspection Office.

7. When product quantities of 500 gallons or more are involved, the DILHR District Petroleum Inspection Office must be contacted. Based upon the contact, the petroleum inspection staff will determine the disposition of the product. The staff may:

a. Sample and test the product to determine compliance with ch. ILHR 48, and then provide directions for disposition;

b. Allow transfer of the product to another station or facility for use or sale; or

c. Classify the product as falling outside of the scope of ch. ILHR 48. (If the material tested falls outside the scope, the product may be determined to be a waste and within the jurisdiction of the DNR.)

ATTACHMENT 6
CLOSURE ASSESSMENT ANALYTICAL REQUIREMENTS

All samples collected for purposes of complying with Section IV of "Closure Assessments for Underground Storage Tanks" must be analyzed for total petroleum hydrocarbons (TPH) using procedures specified in the "California Leaking Underground Fuel Tank Manual."

In addition to sample results, the documentation must include the following items:

1. Sample condition upon receipt by the laboratory including sample temperature;

2. Date of analysis;

3. Description of the laboratory's sample storage technique including methods used to keep samples cold;

4. Analytical method detection limits;

5. Sample results reported in parts per million on a dry/weight basis for the petroleum product used as a quantitation standard. For example: "TPH as Gasoline" or "TPH as #2 Fuel Oil"; and

6. For "unknown" petroleum products or samples whose chromatograph results don't match the petroleum product stored in the tank, explain the decision criteria used to determine the appropriate standard.

Note: The DNR reviews the analytical requirements for soil and groundwater sample analysis in the UST program. The review is expected to result in a revised analytical method for TPH and revisions of the parameters and methods used during investigations of confirmed petroleum releases.