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	

Date

Company representative signature

ILHR 10 Appendix A

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, FLAMMABLE LIQUID TANKS Labor and Human Relations INSTALLATION APPLICATION							P.O. Box 201 E. W	/ashington Avenue				
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- CONTINUE ON REVERSE SIDE -

Register, October, 1994, No. 466

DEPARTMENT OF INDUSTRY, LABOR & HUMAN RELATIONS

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WISCONSIN ADMINISTRATIVE CODE

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 ť

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:
Cily, State, Zip Code:	City, State, Zip Code:
Contact Person and Telephone Number:	Contact Person and Telephone Number:
3. Product information	I

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 s	submit fee):
 New Approval Renewal, With Changes Renewal, No Changes (new 5-year period) Current Approval Number, If Any: 	\$800.00 \$800.00	 Minor Revision At Manufacturer's Request
Wisconsin Code Sections Unde	r Which Ap	oproval Is Requested (if known):
Determination of approval will be ba or superior to the material required b		nce which shows that the material performs in a manner which is equal ctions listed above.
	containing t	rds may be subject to public inspection and copying unless they are rade secrets. Do you wish your documents to be so designated?
l affirm that the information su correct.	ıbmitted w	ith this application is, to my knowledge and understanding,
Applicant's Signature:		Date Signed:

58D-8028 (R. 06/92)

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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

1 Installation of piping

📋 Revise a plan

Upgrade for spill protection

🔲 New install self service

📋 New install key-card-code Convert full service to self-service Convert to key-card-code D Upgrade for overfill

Tank leak detection 🔲 Line tanks Line leak detection

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 $1^{-} = 20^{\circ}$) 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 fetter 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:						Cetablishmant Nama					
Qwne	er/Operator				Establishment Name						
			·	_ <u></u>							
Street Address Where Tank Is Located			City 🗌 Village	Town of	County		ate Zip Code				
		<u></u>		L				MI			
Fire C	Department Prov	iding Fire Protec	ction Coverage T	o Site Of Tank	Fire Dep	artment Identifi	cation Number (F	DID #)			
						·····			<u> </u>		
TAN	K SPECIFICAT	IONS: (each	tank)						<u>,</u>		
	Horizontal	Vertical	Underground	Above Ground	Capacity	Contents	New	Used *	Gauge		
1											
<u> </u>			}								
2			i								
3											
4											
*	If used, indicate v	what manufactu	urer has recertifi	ed the tank(s):	Size	Of Fill Pipe:	Size A	nd Height Of Ver	it		
1					1		(x			
Is pu	mp motor explos	ion proof?	Are pump	witches explosion p	floor	Are bonds an	d grounding prov	ided at load/unlo	ad racks?		
	Yes DN	-	· · ·	Yes No		🗋 Yes 🔲 No					
Wha				icate manufacture	and model nu	imber:					
Wha	t type of spill rop	tainment device	e) Also indicate	manufacturer and	model number						
1110	c type or spin con	(animent device	er Anomoidate	inangracturer and	modermannoe	•					
***	DERGROUND						i	·	- <u></u>		
	nce Buried:			Steel Fiberg	lassOthe	er (specify) -			·		
Αρρι	oval: 🗍 Nat'		Other:				Doubled	waited?	es 🛛 No		
	Tank	How Man	-	Size Of	Specify: Diele		Name Of	Approved Tank (oating		
<u> </u>	Capacity		Itank)?	Anodes	Or Isolation B				<u> </u>		
1	 				00				<u> </u>		
2					[] DU	C IB					
3					00	1218					
4				t	[] DU	118			·······		
			100/10/00/20-	of all manites in			e muet ha cha	un on plane)	<u> </u>		
<u> </u>				of all monitori							
1	Automatic tar		- ·	monitoring		ndwater monito		1 Interstitial n			
		trol and tightne	ess testing (every	5 years for 10 years) [] Manu	ai i ank Gauging	i tour tour tours o	f 1,000 gallons or	1622)		
PIPI	NG:				<u> </u>		·				
The	piping is 📑 Stee	el 🛛 Fiberglass	S Other (spec	ify) - 👘 🕴	Approval: 🔲	Vat'i 🗋 UL 🗋	Other:	Doubled walle	d7 🗍 Yes 🗍 No		
Con	osion protection	for steel piping	provided by:	🗌 Cathodic	protection	<u>[]</u> 10	npressed current				
Pipe	s coated?	() Yes ()	No	Name of approved	d coating (ider	tify):					

CONTINUE ON REVERSE SIDE -

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ILHR 10 Appendix A

	NG (continue													
	cate whether E essurized piping,		 Suction wi Alarm 		ck valve at tank Flow restrictor		ction with 1to shutoff	check Pro	valve inspi ovide Mod	ectable e1	e directly be	ow pi	ump at disp	enser
PIP	NG LEAK DET	ECTION MET	HOD (locat	ion o	f all monitori	ng wel	ls and/or							
lf pr	essurized or chec	k valve at tank, i	indicate leak o			_	ipor monit ghtness tes	-			onitoring lector			
AB	OVE GROUND	TANKS:			······									
Regular Vent Pressure/Vacuum						Mod	el Number		Size	CFH				
Emergency Relief Vent Make							elNumber		Size	CFH				
	ergency Inter			Make	-					Mod	el Number		Size	
	ng provided?				Remote Impounding? Are the dike walls and base impervi Yes No Walls: Yes No Base:						cify distanc ween tanks			
VE	RTICAL TANK	S • LIST THICK	NESS OF M	IETAL	.:	1								
1.	Bottom	Тор	Shell - Lower Course	r	Remainder	4.	Bottom		Тор		Shell - Low Course	é.	Remain	der
2.	Bottom	Тор	Shell - Lower Course	r	Remainder	5.	Bottom		Тор		Shell - Low Course	er	Remain	der
3.	Boltom	Тор	Shell - Lowe Course	r	Remainder	6.	Bottom		Тор		Shell - Low Course	61	Remain	der
FEF	S-ILHR-2;		• ·			-								
Ins	tallation Or L	ining			1	<u>lo. Of 1</u>	<u>lanks</u>		Cos	<u>st</u> '		<u>s</u>	<u>ub Total</u>	
Pla	n Examinatio	n - 1st Tank S	ystem or Co	ompo	nent	1		х	\$ 35.	00	= \$		35.00	
	2nd thru 10th System/Component, \$10.00 ea X \$ 10.00 = + (Maximum charge = \$150.00 for 11 or more)													
	Total Plan	Examination	n Fees		· · · · · · · · · · · · · · · · · · ·	:		• • • • •	тот/	۹L	= \$			
sit	e Inspection - or Componen	\$50.00 for ea	ich tank sys	tem				x	\$ 50.6	00	= \$			
ļ	or componen		•••••		(\$100.00	minim	um fee;							
1	ie Tanks (inclu	-			F	er Sub	mission	х	\$ 65.	00	= \$			
<u>To</u>	w Construction Self Service,	on/Conversio Key-Card-Coc	<u>n</u> 1e	••••	F	er Sub	mission	х	\$ 78.	00	= \$			· •
Ad	dition Or Upo	arade For Lea	k Detection	n;Spil	Protection; (Dverfil	Protect	on; C	orrosion	n Prot	ection			
Pla	in Examinatio	n	· · · · · · · · · · · · · · · · · · ·		• • • <i>• • •</i> • • • • • • •	•••••	•••••		. \$22,	00	= \$			·
Sit	e inspection					• • • • • •			\$43.	00	= \$			
RE	VISION OF PR	EVIOUSLY AF	PROVED P	LAN-	NUMBER:				\$22.0	00	= \$		····	
GF	OUNDWATE	R SURCHARG	E (Wis. Stat	. 101.	14 (5))	•••••	• • • • • • • • •	••••	• • • • • • • • •	••••	= \$		100.00 *	
*	Not required protection re	for spill, over views or plan	fill, leak de revisions	tecti	on, corrosion				TOTAL F	EE	= \$			
WI	IERE SHOULD	PLAN APPRO	OVALS BE S	ENT?										
	0	Owner/Operato	ur 🗌 Ce	rtified	Installer		Namé							
Stre	et Address						City, State,	Zip Co	ide					
CE	RTIFICATION:	-	*							· ····				
	ertify by signa quired well se										, 40 CFR Pa	art 2	80, and al	li i
	nature	COUCKS (DIAN)				comen	., wiii 0e		ligned					
Prir	it Name							Telep	hone Num	ber		.	~	
							1							

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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

Itsis 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 product, 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 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.

2 Out of Service With Product S. 3 Out of Service With No Froduct (Empty)	Closed - Tank Remo Closed - Tank Clear Changed Ownershi In section A. 3, belo	ned ip (Indicate new owner	Tank Is Located:	viding Fire Coverage Where Village Town of:
A. IDENTIFICATION (Please Print) 1 Tank Site Name	Site Addr	ess		Site Telephone Number
City Village] Town of:	State	ZipCode	County
2 Owner Name (mail sent here unless indicated otherw	vise in #3}	Owner Mailing Address (mail sent here unless in	idicated otherwise in #3}
City [] Village] Town of:	State	Zip Code	County
3 Alternate Mailing Name II Different Than #2		Alternate Mailing Street	Address If Different Th	an ∉2
City 🗍 Village] Town of:	State	Zip Code	County
4 Tank Age (date installed, if new; years old, if used)	S. Tank Capacity (gal) 6. Tank Manufact	urer's Name (if known)
7 If more than 1 tank is being reported at a facility, pro the tanks being reported. If a plot plan is being subr			= 20 ft.), numbering a	nd indicating the location of
B. TYPE OF USER (check one): 1 [] Gas Station (any resale) 2.] Bulk Storag 5 [] Industrial 6] Governme 9 [] Agricultural 10.] Other (specified)	ge nt	3. 🔲 Utility 7. 📋 School] Mercantile/Commercial] Residential
C. TANK CONSTRUCTION (check one):			······································	<u></u>
t 🔲 Bare Steel 2 📋 FRP Clad St 5 (1) Other (specify):	eel	3. 📋 Steel With Lining	g 4. [] Concrete
Tank is built to: 📋 National Standard	01	UL Approval of	🗌 Other	
D. ROOF (Check one): 1 [] 1 ixed Roof 2 [] Floating E:	xternal	3. 📋 Floating Interna] Other
E, TANK BASE: 1 1 On Ground 2 On Suppor 5 1) Druble Bottom 6 Other	ts	3. 📋 On Cement	4. [] On Liner
F. PIPING: DAboveg	round	Undergroun	d [j Both
Abuve Ground Piping Construction: Steel Underground Piping Construction:	oated or Wrapped St	eel (a. 🗌 Sacrificial Anod	es or b. 📑 Impressed C	urrent) 3. 🗌 Coaled Steel 6. 🗌 Unknown
G. CONTAINMENT: Dike Side Material: 1 Block 2. Concr Dike Base Material: 1 Concrete 2.	ete 3. 🗌 Earth	4. 🗌 Synthetic	5. 📋 Double W	Vall Material Approval / hotic, Make & Model // :
Remote Impounding? Yes No	eereo ciay - micknes	» ». (, c	ann 4. () syna	
H. DISTANCE FROM DIKE WALL TO NEAREST	-			
t Well Ft 2. Property Line	Ft. 3. Surface	Water Ft.	4. Nearest Building C	On Property Ft
I. TANK CONTENTS 1 Dresel 2 5 Gasohol 6 10 Premax 11 14 Oresone 15		3. [] Unleaded 7. [] Empty 13. [] Chemical *] FuelOil] Unknown
* If # 13 is checked, indicate the chemical name(s) or nu	mber(s) of the chemi	cal or waste.		
If Tank Was Removed or Cleaned For Other Use, Owr Give Date (mo/day/yr):	ner's Signature:		Date Si	gned:

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

SBD 8731 (8: 02/94)

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ILHR 10 Appendix A		ISCONSIN AI		ODE	
Wisconsin Department o Labor and Human Relati For Office Use Only: Tank ID #	I	PETRO TAN nformation Requ	NDERGROUND DLEUM PRODUCT NK INVENTORY ired By Sec. 102.142, V	Safe P.O Mae Vis. Stats. Tele	d Completed Form To: ety & Buildings Division . Box 7969 dison, WI 53707 ephone: (608) 267-5280
Underground tanks in W Please see the reverse sic with at least 10 percent each tank. Send each co this tank by submitting The information you provide n	de for additional in of its total volume I Impleted form to th a form? [] YES	formation on this (included piping) ae agency design [] NO tf yes, ar	s program. An underg located below ground ated in the top right co e you correcting/upda	round storage tan Hevel. A separate orner. Have you p ting information o	c is defined as any tank form is needed for reviously registered
This registration applies to a ta 1A. In Use or 18. Newl 2. Abandoned With Prod 3. Abandoned No Produc or With Water	ly Installed 4. □ Clo duct 6. □ Clo ct (empty) Inc	osed - Tank Removed osed - Filled With ert Material it of Service - Provide	8. Changed Ownersh (Indicate new own below) Date:	ip Where Tank Locat	roviding Fire Coverage ed:
A. IDENTIFICATION: (Please 1. Tank Site Name	e Print)	Site Ac	ddress		Site Telephone No.
City C] Village	Town of:	State	Zip Code	County
2. Owner Name (mail sent he	ere unless indicated oth	erwise in #3 below)	Owner Mailing Address	(mail sent here unless in	dicated otherwise in #3)
] Village	🗌 Town of:	State	Zip Code	County
3. Alternate Mailing Name I	f Different Than #2		Alternate Mailing Street	Address If Different Fr	om #2
City E] Village	Town of:	State	Zip Code	County
4. Tank Age (date installed,	if known: or years old)	5. Tank Capacity (g	gallons) 6. Tank Manufac	turer's Name (if known)
1. Gas Station 5. Industrial 9. Agricultural C. TANK CONSTRUCTION: 1. Bare Steel 3. Coasted Steel	4. 🔲 Fibergla	ment specify): ically Protected and C	3. [] Utility 7. [] School	8. [al Anodes or 8. [] Imp Dther (specify):] Mercantile] Residential ressed Current}
6. 🔲 Relined - Date Approval: 1. 📋 Nat'l Std.			Plastic Composite 9. 🗌 l	Inknown Is Tank Doub	le Walled? TYes No
Overfill Protection Provided?				Spill Contain	
Tank leak detection method: tightness testing 5. [] Inte	:1. Automatic tank	gauging 2. 🗆 Var	por monitoring 3. 🗍 Gra present 7. 🗂 Manual T	oundwater monitoring ank Gauging (only for t	4. Inventory control and anks of 1,000 gailons or less)
D. PIPING CONSTRUCTION					
1. Bare Steel 2. Cat 4. Fiberglass 5. Ot Piping System Type: 1. Pre	ther (specify): essurized piping with: A	auto shutoff; B.	alarm; or C. 🛛 flow restr		9. 🗋 Unknown
1. Bare Steel 2. Cat 4. Fiberglass 5. Ot Piping System Type: 1. Pre 3. Sur	ther (specify): essurized piping with: A ction piping with check	A.] auto shutoff; B. valve at pump and in:	🗋 alarm; or C. 🗋 flow restr spectable	ictor 2. 🗌 Suction pi	9. 📑 Unknown ping with check valve at tank
1. Bare Steel 2. Cat 4. Fiberglass 5. Ot Piping System Type: 1. Pre 3. Sur	ther (specify): essurized piping with: A ction piping with check : used if pressurized or c	A. 🗋 auto shutoff; B. valve at pump and in heck valve at tank: 1	🗋 alarm; or C. 🗋 flow restr spectable		9. 🔲 Unknown ping with check valve at tank
1. Bare Steel 2. Cat 4. Fiberglass 5. Ot Piping System Type: 1. Pre 3. Sur Piping leak detection method:	ther (specify): essurized piping with: A ction piping with check : used if pressurized or c	Aauto shutoff; B. valve at pump and in: heck valve at tank: 1 ness testing 5	□ alarm; or C. □ flow restr spectable . □ Vapor monitoring	ictor 2. 🗌 Suction pi 2. 🗌 Interstitial mon	9. 📑 Unknown ping with check valve at tank
1. Bare Steel 2. Cat 4. Fiberglass 5. Ot Piping System Type: 1. Pre 3. Sur Piping leak detection method: 3. Groundwater monitori	ther (specify): essurized, piping with: A ction piping with check : used if pressurized or c ing 4Tight 2UL 3Ot 2Leaded 6Other 10Premix	Aauto shutoff; B valve at pump and im heck valve at tank: 1 ness testing 5 her:	alarm; or C. flow restress spectable Uapor monitoring Line Leak Detector Unleaded C. Empty L. Waste Oil 4. Kerosene Kerosene	ictor 2. Suction pi 2. Interstitial mon 6. Not Required Double Walted: 4. [8. [12.]	9. Unknown ping with check valve at tank itoring
Bare Steel 2. Cat Gare Steel 2. Cat Gare Steel 2. Cat Gare Steel 2. Cat Gare Steel 2. Cat Cat Gare Gare Steel 2. Cat Gare S	ther (specify): essurized piping with: A ction piping with check : used if pressurized or c ing 4Tight 2UL 3Ot 2Leaded 6Other 10Premix the chemical name(s) or	Aauto shutoff; B valve at pump and im heck valve at tank: 1 ness testing 5 her:	alarm; or C. flow restress spectable Uapor monitoring Line Leak Detector Unleaded C. Empty L. Waste Oil 4. Kerosene Kerosene	ictor 2. Suction pi 2. Interstitial mon 6. Not Required Double Walted: 4. [8. [12.] 15. [9. Unknown ping with check valve at tank itoring Yes No Fuel Oil Sand/Gravel/Slurry Propane Aviation
Bare Steel 2. Cat A Groundwater Monitoria Steel 2. Cat A Groundwater Monitoria Approval: 1. Nat'IStd F. TANK CONTENTS Diese! Gasohol OLUBARE Maked Steel Steel Gasohol OLUBARE S Gasohol OLUBARE S Gasohol OLUBARE S Gasohol S Groundwater Monitoria Chemical S If # 13 is checked, indicate f	ther (specify): essurized piping with: A ction piping with check : used if pressurized or c ing 4Tight 2UL 3Ot 2Leaded 6Other 10Premix the chemical name(s) or	Aauto shutoff; B valve at pump and im heck valve at tank: 1 ness testing 5 her:	alarm; or C. flow restripspectable Uapor monitoring Line Leak Detector 3. Unleaded 7. Empty 11. Waste Oil 14. Kerosene emical or waste.	ictor 2. [] Suction pi 2. [] Interstitial mon 6.] Not Required Double Walted: 4. [8. [12. [15. [9. Unknown ping with check valve at tank itoring Yes No Fuel Oil Sand/Gravel/Slurry Propane Aviation
Bare Steel 2. Cat Gare Steel 2. Cat	ther (specify): essurized, piping with: A ction piping with check : used if pressurized or c ing 4ight 2UL 3O 2Leaded 6Other 10Premix the chemical name(s) or (day/yr):	Aauto shutoff; B valve at pump and in heck valve at tank: 1 ness testing 5 her: 	 alarm; or C. flow restrispectable Vapor monitoring Line Leak Detector 3. Unleaded 7. Empty 11. Waste Oil 14. Kerosene emical or waste. Has a site assessment b 	ictor 2. Suction pi 2. Interstitial mon 6. Not Required Double Walted: 4. [8. [12.] 15. [9. Unknown ping with check valve at tank itoring Yes No Fuel Oil Sand/Gravel/Slurry Propane Aviation
1. Bare Steel 2. Cat 4. Fiberglass 5. Ot Piping System Type: 1. Pre 3. Sur Piping System Type: 1. Pre 3. Sur Piping leak detection method: 3. Groundwater monitorin Approval: 1. Nat'l Std E. TANK CONTENTS 1. Diese! 5. Gasohol 9. Unknown 13. Chemical * * * If # 13 is checked, indicate f * If I Tank Closed, Give Date (monitorin) * If I Tank Closed, Give Date (monitor) * If installation of a new tank is 1.	ther (specify): essurized, piping with: A ction piping with check : used if pressurized or c ing 4. [] Tights 2. [] UL 3. [] Ot 2. [] Leaded 6. [] Other 10. [] Premix the chemical name(s) or (day/yr): being reported, indicate 2. [] DILHR	Aauto shutoff; B valve at pump and in heck valve at tank: 1 ness testing 5 her: 	alarm; or C. ☐ flow restr spectable . ☐ Vapor monitoring . ☐ Line Leak Detector 3. ☐ Unleaded 7. ☐ Empty 11. ☐ Waste Oil 14. ☐ Kerosene emical or waste. Has a site assessment b installation inspection: 3. ☐ Other (identify	ictor 2. [] Suction pi 2. [] Interstitial mon 6. [] Not Required Double Walted: 4. [8. [12. [15. [een.completed? (see re [] Yes [] No	9. Unknown ping with check valve at tank itoring Yes No Fuel Oil Sand/Gravel/Slurry Propane Aviation
Bare Steel 2. Cat Gat Gata Gata	ther (specify): essurized, piping with: A ction piping with check : used if pressurized or c ing 4. [] Tights 2. [] UL 3. [] Ot 2. [] Leaded 6. [] Other 10. [] Premix the chemical name(s) or (day/yr): being reported, indicate 2. [] DILHR	Aauto shutoff; B valve at pump and in heck valve at tank: 1 ness testing 5 her: 	alarm; or C. ☐ flow restr spectable . ☐ Vapor monitoring . ☐ Line Leak Detector 3. ☐ Unleaded 7. ☐ Empty 11. ☐ Waste Oil 14. ☐ Kerosene emical or waste. Has a site assessment b installation inspection: 3. ☐ Other (identify	ictor 2. Suction pi 2. Interstitial mon 6. Not Required Double Walted: 4. C 8. C 12. C 15. C eeen.completed? (see re Yes No	ping with check valve at tank itoring Yes No Fuel Oil Sand/Gravel/Slurry Propane Aviation
Bare Steel 2. Cat Gat Fiberglass 5. Ot Piping System Type: 1. Pre 3. Groundwater monitoria Groundwater monitoria Approval: 1. Nat'l Std E. TANK CONTENTS Diesel Gasohol OLE OF OF OF OF OF OF OF OF OLE OF	ther (specify): essurized, piping with: A ction piping with check : used if pressurized or c ing 4. [] Tights 2. [] UL 3. [] Ot 2. [] Leaded 6. [] Other 10. [] Premix the chemical name(s) or (day/yr): being reported, indicate 2. [] DILHR please print):	Aauto shutoff; B valve at pump and in heck valve at tank: 1 ness testing 5 her: 	alarm; or C. ☐ flow restr spectable . ☐ Vapor monitoring . ☐ Line Leak Detector 3. ☐ Unleaded 7. ☐ Empty 11. ☐ Waste Oil 14. ☐ Kerosene emical or waste. Has a site assessment b installation inspection: 3. ☐ Other (identify Indi	ictor 2. [] Suction pi 2. [] Interstitial mon 6. [] Not Required Double Walted: 4. [8. [12. [15. [een.completed? (see re [] Yes [] No	9. Unknown ping with check valve at tank itoring Yes No Fuel Oil Sand/Gravel/Slurry Propane Aviation everse side for details)

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WISCONSIN ADMINISTRATIVE CODE

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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

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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.

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Wisconsin Department of Industry, Labor and Human Relations		DERGROUND	Sen Safe	d Completed Form To: ety & Buildings Division
For Office Use Only: Tank ID #	TAN	C INVENTORY ed By Sec. 102.142, Wis	Mad	. Box 7969 Jison, WI 53707 phone: (608) 267-5280
Underground tanks in Wisconsin that Please see the reverse side for addition with at least 10 percent of its total vol each tank. Send each completed form this tank by submitting a form?	have stored or currently nal information on this p lume (included piping) lo n to the agency designat YES [] NO If yes, are	store petroleum or reg program. An undergro ocated below ground le ed in the top right corn you correcting/updatin	ulated substance und storage tank vel. A separate er. Have you pr g information of	is defined as any tank form is needed for eviously registered
2. [] Abandoned With Product 6. 3. [] Abandoned No Product (empty)	one): Closed - Tank Removed Closed - Filled With Inert Material Out of Service - Provide Da	(Indicate new owner below)	Fire Department P Where Tank Locate	roviding Fire Coverage ed:
A. (DENTIFICATION: (Please Print) 1. Tank Site Name	Site Add	ress		Site Telephone No.
City [] Village	[] Town of:	State Z	ip Code	County
2. Owner Name (mail sent here unless indicat	ted otherwise in #3 below)	Owner Mailing Address (ma	iil sent here unless in	dicated otherwise in #3)
City 🗋 Village	Town of:	State Ż	ip Code	County
3. Alternate Mailing Name If Different Than	#2	Alternate Mailing Street Ac	ldress If Different Fro	l om #2
City 🗌 Village	Town of:	State Z	ip Code	County
4. Tank Age (date installed, il known: or yea	rs old) 5. Tank Capacity (gal	lons) 6. Tank Manufactur	er's Name (if known)	<u> </u>
5. 🗍 Industrial 6. 🗍 🤇	luk Storage Government Other (specify):	3. [] Utility 7. [] School		Mercantile Residential
3. □ Coated Steel 4. □ F 6. □ Relined - Date 7. □ S	athodically Protected and Coa iberglass teel - Fiberglass Reinforced Pla ① Other:	5. [] Oth	er (specify): nown	
Overfill Protection Provided? Yes No Tank leak detection method: 1. Automati	If yes, identify type:		Spill Containr	nent? [] Yes [] No 4. [] Inventory control and
tightness testing 5. 📋 Interstitial monitori				anks of 1,000 gallons or less)
D. PIPING CONSTRUCTION 1. Bare Steel 2. Cathodically Protect 4. Fiberglass 5. Other (specify):	ted and Coated or Wrapped St	eel (A. [] Sacrificial Anodes	or B. 🗌 Impressed C	urrent} 3. 📑 Coated Steel 9. 🗍 Unknown
Piping System Type: 1. 🗌 Pressurized piping v	with: A.[] auto shutoff; B.[] check valve at pump and insp		or 2. [] Suction pi	ping with check valve at tank
Piping leak detection method: used if pressuria	ed or check valve at tank: 1. [Vapor monitoring 2	2. 📋 Interstitial moni 6. 📋 Not Required	toring
	:. [] Other:		Double Walled:	Yes No
E. TANK CONTENTS 1. [] Diesel 2. [] U 5. [] Gasohol 6. [] C 9. [] Unknown 10. [] E 13. [] Chemical *	Other Premix	3. D Unleaded 7. Empty 11. Waste Oil 14. Kerosene	8. (_ 12. (_	} Fuel Oil } Sand/Gravel/Slurry] Propane Aviation
* If # 13 is checked, indicate the chemical nam	ne(s) or number(s) of the chem	ical or waste.		
lf Tank Closed, Give Date (mo/day/yr):		Has a site assessment been	completed? (see re Yes No	verse side for details)
If installation of a new tank is being reported, i	ndicate who performed the in	stallation inspection:		
1. 📋 Fire Department 2. 🗌 t		3. 🗋 Other (identify)		
Name of Owner or Operator (please print):		Indicati	eWhether:	Operator
Signature of Owner or Operator:		Date Si		···· · · · · · · · · · · · · · · · · ·
SBD-7437 (R. 05/94) IMPORTANT:	Complete as many iter information may caus	ms on this form as poss se you to fall under add	ible. Failure to litional regulatio	provide sufficient ns.

ILHR 10 Appendix A

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 A	ADMINISTR	ATIVE	CODE
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For Office Use Only:

Tank ID #

Wisconsin Department of Industry, Labor and Human Relations

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 6 Changed Ow Product (Empty) in section A.:	: Cleaned nership (Indicate new owner	Tank is Located:	viding Fire Coverage Where Village Town of:
	Address		Site Telephone Number ()
City Uillage Town of:	State	Zip Code	County
2 Owner Name (mail sent here unless indicated otherwise in #3)	Owner Mailing Address	mail sent here unless i	1 ndicated 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 T	han #2
Ctty Dillage Down of:	State	Zip Code	County
4 Tank Age (date installed, if new; years old, if used) 5. Tank Capacit	y (gal.) 6. Tank Manufac	turer's Name (if knowr	1 1)
7 If more than 1 tank is being reported at a facility, provide an 8 1/2 x the tanks being reported if a plot plan is being submitted, this form		= 20 ft.), numbering a	and indicating the location of
8. TYPE OF USER (check one): 1 [] Gas Station (any resale) 2. [] Bulk Storage 5 [] Industrial 6. [] Government 9 [] Agricultural 10. [] Other (specify);	3. 🛛 Utility 7. 🗋 School] Mercantile/Commercial] Residential
C. TANK CONSTRUCTION (check one): 1 [] 8are Steel 2 [] FRP Clad Steel 5 [] Other (specify):	3. 🔲 Steel With Linin	g 4. [] Concrete
Tank is built to: 📑 National Standard 0.	r 🔲 UL Approval ot	🗋 Other	
D. ROOF (Check one): I [] Fixed Roof 2. [] Floating External	3. 📋 Floating Interna	u 4. (] Other
E. TANK BASE: 1 [] On Ground 2. [] On Supports 5 [] Double Bottom 6. [] Other	3. [] On Cement	4. [] On Liner
F. PIPING: 🗌 Aboveground	📋 Undergroun	d (] Both
Above Ground Piping Construction: □ Steel Underground Piping Construction: 1 1 □ Bare Steel 2 2 □ Cathodically Protected and coated or Wrapp 4 □ Fiberglass 5. 0 Other (specify):	□ Other	les or b. 📑 Impressed C	Current) 3. [] Coated Steel 6. [] Unknown
G. CONTAINMENT:	Carath A 171 Curatheatin		17-11
Dike Side Material: 1 🔲 Block 2. 🔂 Concrete 3. 🗋 Dike Base Material: 1 📋 Concrete 2. 🔂 Engineered Clay - Thi	Earth 4. 🛛 Synthetic ckness 3. 🗋 E		Material Approval #
Remote Impounding? 🔲 Yes 🗍 No			
H. DISTANCE FROM DIKE WALL TO NEAREST:			
1 Well Ft. 2. PropertyLine Ft. 3. Su	urface Water Ft.	4. Nearest Building	On Property Ft
I. TANK CONTENTS 1 Diesel 2. Leaded 5 Gasohol 6. Other 10 Premix 11. Waste Oil 14 Kerosene 15. Avlation	3. [] Unleaded 7. [] Empty 13. [] Chemical *	4. [9. [] Fuel Oil] Unknown
* If # E3 is checked, indicate the chemical name(s) or number(s) of the c	hemical or waste.	•	
If Tank Was Removed or Cleaned For Other Use, Owner's Signature: Give Date (mo/day/yr):		Date S	igned:
The information you provide may be used by other agency programs (Pri	wacy Law, s. 15.04(1)(m)		

SBD 8731 (R 02/94)

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Wisconsin Department of I Labor and Human Relation	15		GROUND STO	APPLIC	ATION		Safety and	leted Form To: Buildings Division
Tank ID Number			permanently RE INFORMA				and Fire Pro	etroleum Inspection Direction 69, Madison, WI 53707
1. Tank Leak Detection Co	ompliance Date	2. Tank	Installation Date		3. G	allons		4. User
5. Tank Construction	6. Tank Double Walled? 7. Tank Overfill Protection: 8. Tank Spill Containment: 5				9. Tank Lea	k Detection Method		
10. Piping Construction	Piping Construction 11. Piping Double Walled? 12. Pip				13. Piping	Leak Detection	14. Tank Co	ontents
If the site name and/or ad please indicate correction		is incorre	ect in any way,			name and/or addr ate corrections be		above is incorrect in
A Use Permit must be on this application. 14. If any box has n below. PLEASE NOT TYPE" IN BOX 12 MU If this system is perm	e obtained for the You must review o code or the pre- IE: "IANK CONST IST BE COMPLETE	continu and ver printed RUC110 D. 1FTF	rify the pre-prin code is incorrec IN" IN BOX 5, "I IIS INFORMATIO	f the und ted code it, provid PING CO DN IS NO	lerground s and desi le the com DNSTRUC T PROVID	petroleum sto criptions appea ect code for th FION" IN BOX ED, A USE PERI	aring above at box from 0 AND "Pil WIT CANNO	e in boxes 2 thru n the Code Key PING SYSTEM DT BE I\$\$UED.
	•			E KEY				
Type of User:	01-Gas Station; 02-B 09-Agriculture; 10-O		ge; 03-Utility; 04-M	viercantile;	05-Industr	iał; 06-Governme	nt; 07-Schoo	1; 08-Residential
Tank Construction;	01-Bare Steel; 02-C 04-Fiberglass; 05-o						ressed Curren	it); 03-Coated Steel;
Tank Leak Detection Method:	01-Automatic Tank G Testing; 05-Interstit							
Piping Construction:	01-Bare Steel; 02-Cat 03-Coated Steel; 04-			ted or Wra	pped Steel (aSacrifícial Anodi	as or bImpre	ssed Current);
Piping System Type:	01-Pressurized Piping 03-Suction Piping Wi							ck Valve at Tank;
Piping Leak Detection Method:	01-Vapor Monitoring 05-Line Leak Detecto			1; 03-Gri	oundwater M	Aonitoring; 04-1	ightness Test	ing;
Tank Contents:	01-Diesel; 02-Leade 11-Waste Oil; 12-Pro					er; 07-Empty; 08	-Sand/Gravel	/Slurry; 10-Premix;
			NK CLOSURI			J		
Indicate whether tank t	was: Filled With Inert Mater		Give Date Tank W					in completed?
Signature of Owner or	Operator:	4			Date Sig	ned:		
L	IMPORTANT	выстр		0.000		OF REVERSE		
If the "leak dete	ction" compliance ted to verify comp	e date i	ndicated in box	1 above	has been i	eached, Sectio		

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.
 SBN 2658 (R-12/3)

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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.
- 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: ______

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

Name Mödel #

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

Name

Name

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

Name

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:

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.

[] 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: ______

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

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

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:
- 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:

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

Name

Name

Model #

Model #

Model #

Model #

Model #

Mödel #

Model #

Model #

DEPARTMENT OF INDUSTRY, LABOR & HUMAN RELATIONS

ILHR 10 Appendix A

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		DERGROUND LEUM PRODUCT		d Completed Form To: ety & Buildings Division
For Office Use Only:			P.O	. Box 7969 dison, WI 53707
Tank ID #	Information Requir	ephone: (608) 267-5280		
Underground tanks in Wisconsin that Please see the reverse side for additio with at least 10 percent of its total vol each tank. Send each completed form this tank by submitting a form? [] ' The information you provide may be used by o	nal information on this lume (included piping) k n to the agency designa YES []] NO if yes, are	program. An undergre ocated below ground l ted in the top right corr you correcting/updati	ound storage tan evel. A separate ner. Have you p ng information o	k is defined as any tank form is needed for reviously registered
2. Abandoned With Product 6. J. Abandoned No Product (empty)	one): Closed - Tank Removed Closed - Filled With Inert Material Out of Service - Provide D	(Indicate new owner below)	Fire Department F Where Tank Locat	roviding Fire Coverage ed:
A. (DENTIFICATION: (Please Print) 1. Tank Site Name	Site Add	fress		Site Telephone No.
City 🗍 Village	Town of:	State	Zip Code	County
2. Owner Name (mail sent here unless indica	ted otherwise in #3 below)	Owner Mailing Address (m	ail sent here unless in	adicated otherwise in #3)
🗌 City 📋 Village	📋 Town of:	State	Zip Code	County
3. Alternate Mailing Name If Different Than	#2	Alternate Mailing Street A	ddress If Different Fr	om #2
City 🗍 Village	Town of:	State	Zip Code	County
4. Tank Age (date installed, if known: or yea	rs old) S. Tank Capacity (ga	llons) 6. Tank Manufactu	rer's Name (if known	<u>}</u>
5. 🗍 Industrial 6. 🗍 🤇	Julk Storage Sovernment Dther (specify):	3. [] Utility 7. [] School] Mercantile] Residential
3. □ Coated Steel 4. □ F 6. □ Relined - Date 7. □ 5	Cathodically Protected and Co Fiberglass Steel - Fiberglass Reinforced Pl	5.00	her (specify):	
Approval: 1. Nat'l Std. 2. UL 3. Overfill Protection Provided? Yes No.	Other:		Is Tank Doub Spill Contain	nent? Yes No ment? Yes No
Tank leak detection method: 1. Automati tightness testing 5. Interstitial monitor	ic tank gauging 2. [] Vapo		ndwater monitoring	4. I Inventory control and anks of 1,000 gallons or less)
D. PIPING CONSTRUCTION 1. Bare Steel 2. Cathodically Protec 4. Fiberglass 5. Other (specify):	ted and Coated or Wrapped S	teel (A. [] Sacrificial Anode	s ar B. 🗋 impressed	Current) 3. 📋 Coated Steel 9. 🗍 Unknown
Piping System Type: 1. 🔲 Pressurized piping	with: A 🗌 auto shutoff; B. 🗖 i check valve at pump and insp	alarm; or C. [] flow restric	tor 2. 🗌 Suction p	
Piping leak detection method: used if pressuria	zed or check valve at tank: 1.		2. Interstitial mon 6. Not Required	itoring
	Tightness testing 5.		Double Walled:	Yes No
E. TANK CONTENTS				
1. 🗋 Diesel 2. 🔲 1		3. [] Unleaded] Fuel Oil Seed/Grouel/Shurry
5. [] Gasohol 6. [] 4 9. []: Uaknown 10. [] 1		7. 📑 Empty 11. 📋 Waste Oil] Sand/Gravel/Slurry] Propane
13. 🔲 Chemical *		14. 🗍 Kerosene	15. [] Aviation
* If # 13 is checked, indicate the chemical name	ne(s) or number(s) of the chen		······	
If Tank Closed, Give Date (mo/day/yr):		Has a site assessment bee	n completed? (see n Yes [] No	everse side for details)
If installation of a new tank is being reported,				
1. Fire Department 2. Name of Owner or Operator (please print):	DILHR	3. [] Other (identify)	te Whether:	
Name of Owner of Oberator (brease hund)				Operator
Signature of Owner or Operator:		Date	Signed:	
	Complete as many its	me on this form as not	cible Failure to	provide sufficient

IMPORTANT: Complete as many items on this form as possible. Failure to provide sufficient information may cause you to fall under additional regulations.

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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.

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"(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.

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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 <u>both</u> the DILHR office and to the DNR at the following addresses:

Bureau of Petroleum Inspection & Fire Protection	Bureau of Solid and Hazardous Waste Management
P.O. Box 7969	P.O. Box 7921
Madison, WI 53707	Madison, WI 53707

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Wisconsin Department of Industry, Labor and Human Relations	ABC	OVEGROUND		Completed Form To: y & Buildings Division
For Office Use Only:	PETR	OLEUM PRODUCT	P.O.1	3ox 7969 son, WI 53707
Tank ID #	TA	NK INVENTORY		ohone (608) 267-5280
This form must be completed pursuant to s. 101 petroleum product storage system is an above system. Not included are pipeline facilities, tan storing heating oil for consumptive use on the each tank. Send each completed form to the a	petroleum products, together pacity, farm and residential tar anks owned by the state or fed	with an on-site integral its of 1,100 gallons or fe	piping or dispensing ss capacity, tanks used for	
This registration applies to a tank that is (check	 4. □ Closed - Tank 5. □ Closed - Tank 6. □ Changed Own 	Cleaned nership (Indicate new owner	Tank is Located:	iding Fire Coverage Where /illage 🔲 Town of:
Product (Empty) A. IDENTIFICATION (Please Print)	in section A. 3	L below)		
1 Tank Site Name	Site	Address		Site Telephone Number
[City 🗌 Village	[] Town of:	State	Zip Code	County
2 Owner Name (mail sent here unless indica	ted otherwise in #3)	Owner Mailing Address (mail sent here unless in	dicated 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 The	an #2
📋 Cıty 📋 Village	Town of:	State	Zip Code	County
4 Tank Age (date installed, if new; years old	, if used) 5. Tank Capacit	y (gal.) 6. Tank Manufact	lurer's Name (if known)	
7 If more than 1 tank is being reported at a the tanks being reported. If a plot plan is			= 20 ft.), numbering ar	id indicating the location of
5 📋 Industrial 👘 6 🗍 🤅	Bulk Storage Government Other (specify):	3. [] Utility 7. [] School		Mercantile / Commercial Residential
C. TANK CONSTRUCTION (check one				-
1 [] Bare Steel 2 [] 5 5 [] Other (specify):	FRP Clad Steel	3. 📋 Steel With Linin	g 4. []	Concrete
Tank is built to: 🔄 National Standard	01	r 🔲 UL Approval or	Other	
	Floating External	3 📋 Floating Interna	. 4. 🗆	Other
	On Supports	. 3. 📋 On Cement	4. 🗆	On Liner
5. [] Double Bottom 6. [] F. PIPING: []	Other Aboveground	📋 Undergroun	d []	Both
· · · · · · · · · · · · · · · · · · ·	Steel	Other		
Underground Piping Construction: 1 [] Bare Steel 2 [] Cathodically Prote 4 [] Fiberglass 5. [] Other (specify):	cted and coated or Wrapp		es or b. 🔲 Impressed Cu	rrent) 3. 🗌 Coated Steel 6. 🔲 Unknown
G. CONTAINMENT: Dike Side Material: 1 [7] Block 2.	Concrete 3.	Earth 4. 🗍 Synthetic	5. 🔲 Double W	all Material Approval #
Dile Base Material: 1 🔲 Concrete 2.			arth 4. [] Synth	Material Approval # etic- Make & Model # :
Remote Impounding? 🔲 Yes 🔲 No				
H. DISTANCE FROM DIKE WALL TO I 1 Well Ft 2. Property Line		Inface Water Ft.	4. Nearest Building C	n Property Ft
I. TANK CONTENTS				
5 🗍 Gasohol 6 🗍 10 🗍 Premix: 11. 🗍	Waste Oil	3. 📑 Unleaded 7. 📑 Empty 13. 📑 Chemical * 🔔		Fuel Oil Unknown
14 [] Kerosene 15. [] ★ If # 13 is checked, indicate the chemical name		hemical or waste.		
If Tank Was Removed or Cleaned For Other Us Give Date (mo/day/yr):	e, Owner's Signature:		Date Sig	ined:
The information you provide may be used by o	ther agency programs IPri	ivacy Law, s. 15.04(1)(m)].		

SBD 8731 (R 02/94)

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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 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, UNDE Labor and Human Relations			ERGROUND STORAGE TANK SYSTEM USE PERMIT APPLICATION					Send Completed Form To: Safety and Buildings Division Bureau of Petroleum Inspection		
Tank ID Number	TANK CLOS					y closec TION se	l, comple ection on	ete only the this page.	and Fire Pr	
F. Tank Leak Detection (Tank Leak Detection Compliance Date 2. Tar				Installation Date		3. Ģ	slions		4. User
5. Tank Construction	6. 1	fank Doub	le Walled	¹⁷	7. Tank Overfill P	rotection:	8. Tank Spi	ll Containment:	nment: 9. Tank Leak Detection Metho	
10. Piping Construction	ion 11. Piping Double Walled? 12.				12. Piping System	туре	13. Piping I	eak Detection	14. Tank C	ontents
If the site name and/or ac please indicate correction			bove is in	corre	ct in any way,			name and/or addr		g above is incorrect in
				,		,,	preserventers			
A Use Permit must b on this application.	Youn	nust revi	the cor iew and	ntinu I veri	ify the pre-prin	f the und ted code	lerground s and desc	petroleum sto riptions appea	aring above	e in boxes 2 thru
A Use Permit must b on this application. 14. If any box has r below. PLEASE NO 1YPE" IN BOX 12 MI If this system is peri Type of User:	You n to code TE: "T UST BE manen 01-Gas	nust revi e or the p ANK CO COMPLI Uy close s Station; 1	the cor lew and pre-prin NSTRU(ETED, 1 ed, comp 02-Bulk S	ntinu I veri Ited (CIIO IF TH <u>plete</u> torag	ed operation o Ify the pre-prin code is incorrec 11" IN BOX 5, "F IIS INFORMATIC only the TANK CODE	f the und ted code t, provid PING CO DN IS NO CLOSUF E KEY	lerground s and desc le the corre ONSTRUCT T PROVIDE RE INFORM	petroleum sto riptions appea act code for th ION" IN BOX D, A USE PERI ATION section	aring above at box from 10 AND "PL WIT CANNO 11 on this pa	e in boxes 2 thru n the Code Key PING SYSTEM DT BE ISSUED.
on this application. 14. If any box has r below. PLEASE NO 1YPE" IN BOX 12 MI If this <u>system is pen</u>	You n to code TE: "T UST BE <u>manen</u> 01-Gas 09-Agr 01-Bar	nust revi e or the p ANK CO COMPLI <u>tly close</u> s Station; f riculture; re Steel; f	the cor iew and pre-prin NSTRUC ETED. I ed, comp 02-Bulk S 10-Other 02-Catho	ntinu I veri Ited (CTIO) IF TH olete torag dically	ed operation o ify the pre-prin code is incorrec 11" IN BOX 5, "F IIS INFORMATIC only the TANK CODE e; 03-Utility; 04-N y Protected and Co	f the und ted code t, provid PING CC DN IS NO CLOSUF E KEY Mercantile;	lerground s and desc le the corra DNSTRUCT T PROVIDE RE INFORM 05-Industria (aSacrificial	petroleum sto riptions appea act code for th ION" IN BOX " D, A USE PERI <u>ATION section</u> al; 06-Governme Anodes or bImp	aring above at box from 10 AND "PL WIT CANNO 1 on this pa nt; 07-Schoo	e in boxes 2 thru n the Code Key PING SYSTEM DT BE ISSUED. 1999:
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- 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 0 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 value 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)

Model #

Mödel #

Model #

Model #

Model #

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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.
- 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:

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

Name Model /

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

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

Name

Namé

Name

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:

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.

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

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

Námě

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

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.
- 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 7

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:		.1	Tank Double Walled:	Tank Overfill Prote	ction: Ta	l nk Spill Containment:
			Tank Leak Detection:	Piping Construction	n: Pij	oing Double Walled:
			Piping System Type:	Piping Leak Detect	ion: Ta	nk Contents:
. •			Permitted Tank Locat	ed 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

DEPARTMENT OF INDUSTRY, LABOR & HUMAN RELATIONS

ILHR 10 Appendix A

i		519 r Office Use Only	,	Com	Diete on	UNDERGROUN TALLATION e form for eac lated piping.	Labo Safe h Fire Stor	or and I ty & Bu Preven age Tai	Human Jildings Ition & I nk Secti	nent of Ind Relations Division Jndergrou on dison, Wi	und
	This checklis	t covers installat	ion of: 🗖	Tank: [1]	Pining: 🗖	Spill Containment;			-	•	
		ATION: (Please)			· · · · · · · · · · · · · · · · · · ·	2. Owner Name					
	Installation Street	et Address			-	Owner Street Address					
	City	Village	E	Town of:		City Village	Town of:	Stale	-	Zip Code	
	State	Zip Code		County		County	Telephone No.	(includo)	area cod	9)	
	3. Installation C	ompany Name		.	Installation (Company Street Address			State	Zio Codo	
	Company Telep	hona No. (include area)	code)		Certified Ins	taller Name			Installer	Certification	No.
	 B. PLAN AP 1. Plans hav 2. State plan 3. Tank Cap 	e been submitted a number (if applical	ole) is		nk contents,	if known:		VE	STALLER RIFIED	INSPECTOR VERIFIED	NA *
		NSTRUCTION									
	2. Tank is u 3. Tank is c	sed, but has been re orrosion protected (certilied to	o meet the lically protect	EPA new tan sted steel, [k standard.] liberglass or [] con	nposite tank) an	 d			
	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										
()	 Fuel oil, c above gro Overfill pr 	liesel or other Class ound level.	Il or III A li istalled and	iquid storag d matches p	e tank vents plan submitta		- 	<i></i> .			
		ANDLING AND TE				·····					
	2. Tank coa 3. Preinstall	ting was inspected a ation test of single v	and any da vall tank co	mage to the	e coaling rep pressurizing	ad around the tank sho aired g tank with 3-5 psig ai ing for bubbles	·····	••••			
	seal inner pressuriz for monite 4. Tank test	r tank and disconned e the interstitial space oring the pressure, ed after backfilling t	ct external ce with a m Soap all s hrough pre	air supply, tax 5 psig a unaces, se icision test,	monitor for o ir from the is ams and fitti approved ta	to a maximum of 5 p one hour. After one h oner lank and use a so ngs and inspect for bu nk gauge or interstilla	our, econd gauge ibbles				
		TE AND BACKFIL				l from to didisore			r		
	 Tank is s Backfill for 	paced a minimum o or steel or fiberglass	f 2 feet froi clad steel	m any othe tank is clea	r tank in, washed, t	et from buildings.					
	 Backfill fo and maxi Minimum 	or fiberglass tank is mum size of 3/4 inc of 1 foot of backfill	pea gravel h or crushe extended t	naturally ro ed rock or g beyond peri	und with min ravel betweet imeter of tan	nimum diameter of 1/6 an 1/8 and 1/2 inch in k. n (If hold down pads	l inch size				
	used, bed 7. Boltom h a. Fiberg b. Steel t 8. Backfill n	dding may be reduc old down pads used lass tank with 1 fool lank with 6 inches of naterial placed over	ed to 6 inc of compacte compacte tank to a d	ttes.) cted backfil d backfill o lepth of at lo	l over top of ver top of pa past 1 foot.	pad					
()	\$80-6294 (R. 014	94)			- CONTIN	UE ON NEXT PAGE					

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ILHR 10 Appendix A

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 E. TANK SITE AND BACKFILL (continued) 9. Backfill compaction is adequate to securely and evenly support the tank and prevent movement/settlement 	INSTALLER VERIFIED t.	INSPECTOR VERIFIED	
10. Excavation is in a bog, swampy area or landfill and a lilter 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	····		
 Installation is in an area of high water table or subject to flooding and tank is anchored. Anchor straps for fiberglass tank were nonmetallic and were placed according to 	· 🗆		
manufacturer's specifications.	· 🗋		
the tank structure. (All metal fittings are protected from corrosion.)			
G. PIPING (Indicate whether piping is] Fiberglass or Steel; then check one of the type proceeding to answer 1 - 15.)	s below I	oefore	
Pressurized piping with auto shutoff, alarm or flow restrictor Suction piping with check value at tank			
 Suction piping with check valve at pump and inspectable. Dising is strend back to back (1/2) INO(1) and (as) 		n	-
 Piping is sloped back to tank (1/8 INCH per loot). Piping is evenly and adequately supported by at least 6 inches of backfill bedding. 	· 🗋 🛛	ğ	Ë
 Piping trench provides at least 18 inches of compacted backfill and paving on top of piping. Pipes are separated by at least twice the pipe diameter. 			
5. Pipes are separated from the trench excavation sidewalls by at least 6 inches	· 🗌		
 Metal piping is at least schedule 40 black steel or galvanized pipe, and is wrapped or coaled. Fittings and couplings are extra-heavy malleable iron screw-type, Schedule 40 or better. 	· 🔲		
 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. 			
 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. 			Ο
 Piping was isolated from the tank and dispenser and tested through another approved means prior to and after backfilling Indicate method(s) prior 			
after	- 🛄		
 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.	$\cdot \square$		
H. LEAK DETECTION (Check which applies under both TANK and PIPING) 1. Tank Tightness testing and inventory control Automatic tank gauging Vapor monitoring 1. Interstitial monitoring Manual Tank Gauging (only for tanks of 1,000 gallons on 1,000 gallons o		dwater mon	iloring
2. Piping (pressurized or suction with check valve at tank) Tightness testing Groundwater monitoring Interstitial monitoring	⊡ V	apor monito	ring
I. INSPECTOR INFORMATION		i	-
Inspector Signature: Local	Operator #	•	<u> </u>
Date Signed: Fire department providing coverage:	FDI0	#:	.
J. INSTALLER CERTIFICATION			
I certify that the tank and related piping was installed according to the manufacturer's instructions and com of the following standards: API 1615, PEI RP100 or ANSI B31.4.	ply with on	Ð	
Installer Signature Date Signed			
TANK INVENTORY FORM SBD-7437 SIGNED BY THE OWNER MUST BE SUBMITTED WITH EACH INST.	ALLMENT	CHECKL	IST.
SAFETY AND BUILDINGS			

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DEPARTMENT OF INDUSTRY, LABOR & HUMAN RELATIONS

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 Ir Labor and Human Relations	5		GROUND STO USE PERMIT	APPLIC	ATI	ON	Safety and	<u>ileted Form To:</u> Buildings Division Petroleum Inspection
Tank ID Number						mplete only the on on this page.	and Fire Pr	
1. Tank Leak Detection Co	mpliance Date	2. Tank	Installation Date			3. Galtons		4. User
5. Tank Construction	6. Tank Double W	alled7	7. Tank Overfill P	rotection:		ank Spill Containment:		ak Detection Method
10. Piping Construction	0. Piping Construction 11. Piping Double W		12. Piping System	т Туре	13.	Piping Leak Detection	14. Tank C	ontents
If the site name and/or add please indicate corrections		IS INCOIPE	ct in any way,			hailing name and/or addr se indicate corrections be		above is incorrect in

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 (aSacrificial Anodes or bImpressed 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 <u>only</u>)
Piping Construction:	01-Bare Steel; 02-Cathodically Protected and Coated or Wrapped Steel (aSacrificial Anodes or bImpressed Current); 03-Coated Steel; 04-Fiberglass; 05-other
Piping System Type:	01-Pressurized Piping With: aAuto Shutoff; bAlarm; or cFlow 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?			
Signature of Owner or Operator:	Date Sig	ned:			

MORTANT 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. _

SBD 7658 (R-12/91)

COMPLETE ALL SECTIONS ON REVERSE SIDE

ILHR 10 Appendix A

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. <u>Attach a copy of the report on the latest tank test</u>.

- 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: ______

Model #

Model #

	Name			Model #
Interstitial monitoring.	Provide nar	ne and model numbe	r of interstitial	monitoring device:

Name

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

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

Name

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

	resourced riping systems must have been better of mistance by the	Sister Sister redences source
Flo	Flow restrictor, automatic shutoff or continuous alarm; provide the name and model	number of system installed:
	Name	Model #
	AND	
<u>A l</u>	A leak detection method from the following list; check all items that apply and attac	h requested information.
	Tightness testing. Attach a copy of the report on the latest test of the piping syst	em.
	piping and associated monitoring wells. Provide the name and model number of presence of vapors;	f the device used to monitor for
	Name	Model #
	Groundwater monitoring. Attach a plot plan drawn to scale (scale not smaller the of piping and associated monitoring wells. Provide depth to groundwater:	
	Name	Model #
	Interstitial monitoring. Provide name and model number of interstitial monitori	ng device:
	Name	Model #
	Name	Model #
Le	Leak Detection For Piping	
Su ite	Suction piping with the check value at the tank: indicate which method(s) of leak de items that apply and attach requested information. Leak detection deadlines for suc at the tank) match that of the tank system.	etection you are using. Check all tion piping (with the check valve
	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" = lines and associated monitoring wells. Provide the name and model number of t presence of vapors:	he device used to monitor for
	Name	Model #
	Groundwater monitoring. Attach a plot plan drawn to scale (scale not smaller th of piping and associated monitoring wells. Provide depth to groundwater: number of device/system used to monitor for presence of product in well:	nan 1" = 20') showing the location feet. Provide name and model
	Name	Model 🛿
	Interstitial monitoring. Provide name and model number of interstitial monitori	ing devise:
	Name	Model #

C.

ILHR 10 Appendix A

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:	<u>]</u>	<u> </u>	fank Double Walled:	Tank Overfill Protect	ion: Tank Spill Containment:
			Tank Leak Detection:	Piping Construction:	Piping Double Walled:
			Piping System Type:	Piping Leak Detectio	n: Tank Contents:
			Permitted Tank Locat	ed At:	
58D-7659 (R. 06/91)				<u></u>	

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;

 O4-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-Evel Oil; 05-Gasohol; 06-Other; 07-Empty; 08-Sand/Gravel/Slurry; 09-Unknown; 10-Premix; 11-Waste Oil; 13-Chemical; 14-Kerosene; 15-Aviation

ILHR 10 Appendix A

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

Tank ID #: For Office Use Only

CHECKLIST FOR UNDERGROUND TANK INSTALLATION

Complete one form for each

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

			tar	k and re	elated p	oiping.			ank Sec 7969, M	tion ladison, Wi	53707
This	checklist covers	installation of: [] Tank; []	Piping; 📋	Spill Con	itainment;				-	
	DENTIFICATION: Installation Name	(Please Print)			2. Owner	Name					
" Insta	allation Street Address				Owner Stre	eet Address				·	··
	City	Village	Town of:		City	Village	Town of:	State	T	Zip Code	
Stat		17:00-			- -	·····					
5(8)	0	Zip Code	County		County		Telephone No	. (includ)	e area co)de)	
3. 1	nstallation Company Na	1010		Installation C	Company Str	cel Address	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	State	Zip Code	<u> </u>
Con	npany Tolophone No. (ir ()	nclude area code)		Certified Inst	taller Name				Installe	er Certification	No.
	PLAN APPROVAL Plans have been su			· ·					NSTALLEA	VERIFIED	NA .
2,	State plan number i	(if applicable) is								Ļj	
_			gallons. Ta	nk contents,	if known:						
1. 2.	TANK CONSTRUC Tank is new and ca Tank is used, but h Tank is corrosion p	arries UL or other na as been recertified	to meet the	EPA new tan	k standard						
4.	matches the equipri- Test stations have t	ment listed in the pl been installed for m	an review. nonitoring cal	Ihodic protec	lion on the	tank					
 Gasoline and other Class I (lammable 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.					П						
	Overfill protection d Spill containment d	device is installed a	nd matches	plan submitta	al						
1. 2.	TANK HANDLING Tank was lifted usin Tank coating was in Preinstallation test	ng lifting lugs, no cl nspected and any c	lamage to th	e coating rep	aired						
	pressure, soaping a	all surfaces, seams,	and fittings								
	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 p Tank tested after b Tank gauge or inter	ackfilling through p	recision test,	approved la	nk gauge o	or interstitial	monitor				
	TANK SITE AND				• due un 1	diana			-	I1	n
	Tank located a min Tank is spaced a m										
3.	3. Backfill for steel or fiberglass clad steel tank is clean, washed, well granulated sand,										
	Backfill for fiberglas and maximum size Minimum of 1 foot	ss tank is pea grav of 3/4 inch or crus	el naturally ro hed rock or g	ound with mir gravel betwee	nimum diar an 1/8 and	meter of 1/8 1/2 inch in s	inch Ize				
	Minimum of 1 foot	of compacted back	fill in boltom	of excavation	n (lf hold	down pads a	ere				
7.	used, bedding may Boltom hold down	pads used.									
	7. Bottom hold down pads used.										
	The information you provide may be used by other government agency programs (Privacy Law, s. 16.04 (1)(m))										

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- CONTINUE ON NEXT PAGE -

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E. TANK SITE AND BACKFILL (continued)	INSTALLER VERIFIED	INSPECTOR VERIFIED	NA
 Backfill compaction is adequate to securely and evenly support the tank and prevent movement/settleme Excavation is in a bog, swampy area or tandfill and a filter fabric was used to prevent the migration of the backfill material. 		n	
1t. Tank in area of vehicle traffic, 3 feet of earth cover or 18 inches of earth plus 6 inches			П
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.	·· []		
1. Installation is in an area of high water table or subject to flooding and tank is anchored.	🗋		
 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 typ proceeding to answer 1 - 15.)	es below	before	
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. Piping is sloped back to tank (1/8 INCH per foot). Piping is evenly and adequately supported by at least 6 inches of backfill bedding. Piping trench provides at least 18 inches of compacted backfill and paving on top of piping. Pipes are separated by at least twice the pipe diameter. Pipes are separated from the trench excavation sidewalls by at least 6 inches. 			
 Pipes ale separate from the traffer excertation statistics of restorer indices. Piping inspected for damage to pipe or coating. Metal piping is at teast schedule 40 black steel or galvanized pipe, and is wrapped or coated. Fittings and couplings are extra-heavy malleable iron screw-type. Schedule 40 or better. 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	·· 🗋		
of operating pressure but not less than 50 psig for 1 hour.	🛛		
means prior to and after backfilling Indicate method(s) prior after			П
 Metal piping is protected from corresion by a calledic protection or a piping. Test stations have been installed for monitoring cathodic protection on piping. 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)			
Tank Tightness testing and inventory control Automatic tank gauging Vapor monitoring Manual Tank Gauging (only for tanks of 1,000 gallons	Groun or less)	ndwater mon	itoring
2. Piping (pressurized or suction with check valve at tank) Tightness testing Groundwater monitoring Interstitial monitoring	□ V	apor monito	ring
I. INSPECTOR INFORMATION			
Inspector Signature: Loca	l Operator	#:	
Date Signed: Fire department providing coverage:	FDI)#:	
J. INSTALLER CERTIFICATION I certify that the tank and related piping was installed according to the manufacturer's instructions and con of the following standards: API 1615, PEI RP100 or ANSI B31.4.	nply with o	ne	
Installer Signature Date Signed			
TANK INVENTORY FORM SBD-7437 SIGNED BY THE OWNER MUST BE SUBMITTED WITH EACH INS SAFETY AND BUILDINGS	TALLMEN	TCHECK	.IST.

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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.

LINDI LINDI LINDI	elations			Safety & Buildings Division 201 E. Washington Ave. P.O. Box 7969 Madison, WI 53707		
Dept. Use Only Plan No.	franciska (m. 1920) – na v Stavije	Petition For Variance A	pplication	Telephone: (608) 266-3151		
Amount Pald				Page 1 of		
		prmation you provide may be used by other g				
 Owner Informati 		2. Project Information		grams (Privacy Law, s. 15.04(1)(m).		
Name		Building Occupancy Chapter(s) and Uso	Désigner	Registration #		
Сопралу Маню		Tepant Name (if any)	Design Fin	Design Firm		
Nomber and Street	<u> </u>	Project Lecation (number and street)	Number a	Number and Street		
City, State and Zip Code		City [] Village []] Township	of City, State	and Zip Code		
Contact Person		County of	Contact Pr	27SON		
Teleptione Number	Fax Number	Prop. ID # (lax parcel # - contact county)	Telephono			
, 1. Plan Review Sta		E On hold	T Already built	()		
leview By: 🔲 State lan Number		Preliminary design Approved, requesting revision Submitted with petition	into compliance Plan wilt be sub Other	o older code but must be brough with current code nitted after polition determination		
 Reason why con 	npliance with the cod	e cannot be attained without the va	ríance.			
7. State your propo	used means and ratio	le cannot be attained without the va	of health, safety,	-		
 7. State your propo code section pet 8. List attachments 	itioned.	nale of providing equivalent degree	of health, safety,			
 State your propo code section pet Code section pet List attachments articles, expert o Verification By Own Section ILHR 2.52 for o Note: Petitioner mu 	psed means and ratio litioned to be considered as pinion, previously ap ner - Petition is vali complete lee information ust be the owner of the	nale of providing equivalent degree part of the petitioner's statements (proved variances, pictures, plans, s d only if notarized with affixed so on) he building or project. Tenants, ago er of Attorney is submitted with the	of health, safely, i.e., model code s ketches, etc.) eal and accompa ents, designers, co Petition for Variar	ections, test reports, research nied by review fee (See ontractors, attorneys, etc., nce Application.		
 7. State your propo code section pet code section pet attachments articles, expert o Verification By Own Section ILHR 2.52 for of Note: Petitioner mu shall not sign 	itioned. to be considered as ppinion, previously ap ner - Petition is vali complete tee information ust be the owner of the n petition unless Pow	nale of providing equivalent degree part of the petitioner's statements (proved variances, pictures, plans, s d only if notarized with alfixed so on) he building or project. Tenants, ago er of Attorney is submitted with the	of health, safety, i.e., model code s ketches, etc.) eal and accompa ents, designers, co Petition for Variar	ections, test reports, research nied by review fee (See patractors, attorneys, etc.,		
 State your propo code section pet Code section pet List attachments articles, expert o Verification By Own Section ILHR 2.52 for o Note: Petitioner mu 	itioned. to be considered as ppinion, previously ap ner - Petition is vali complete tee information ust be the owner of the n petition unless Pow	nale of providing equivalent degree part of the petitioner's statements (proved variances, pictures, plans, s d only if notarized with alfixed so on) he building or project. Tenants, ago er of Attorney is submitted with the	of health, safety, i.e., model code s ketches, etc.) eal and accompa ents, designers, co Petition for Variar and ownership rights to	sections, test reports, research inied by review fee (See intractors, attorneys, etc., ice Application.		

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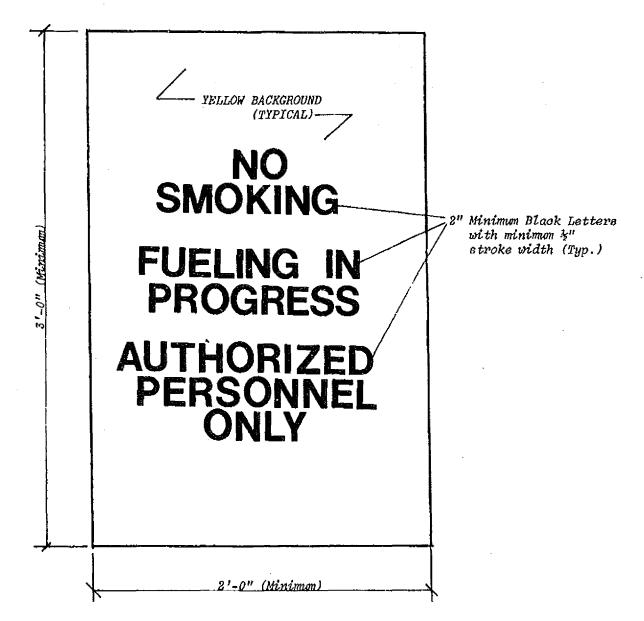
()

ILHR 10 Appendix A

Owner's Name	Project Los	cation	Plan Number
To be co	re Department Positi mpleted for variances requeste other fire related requirements		Page 2 of
I have read the petition for varia	ance and recommend: (c	heck appropriate box)	
🗌 Approval 🔄 📋 Conditiona	l Approval 🛛 📋 Denial	📋 No Comme	int
Explanation for recommendation in	ncluding any conflicts with le	ocal rules and regulatio	ns and suggested conditions:
		······	
	·····	······································	
	••••••••••••••••••••••••••••••••••••••	<u> </u>	· · · · · · · · · · · · · · · · · · ·
			·
Fire Department Name and Address		,	· · · · · · · · · · · · · · · · · · ·
THE DAMARTING IN MALLE AND ANDRESS			
Fire Chef or Designee Name (type or print)			Telephono Number
			Telephone Number Date Signed

ILHR 10 Appendix A

A10.42 (3) (1) 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

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.

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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, docu-Register, October, 1994, No. 466 mented 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. Ĺ

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	Minimum Number of
Samples Field Tested	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.

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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, changein-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 Register, October, 1994, No. 466 98

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 siteby-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.

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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, shell, 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.

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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 Register, October, 1994, No. 466

if tested in advance for Volitile Organic Compound (VOC) carryover. New one-quart plastic bags may also be used. (See E below.)

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

4. Headspace sample containers are to be filled $\frac{4}{2}$ to $\frac{3}{4}$ 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.

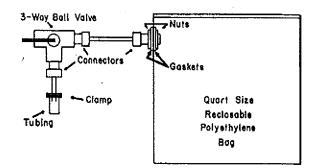


Figure source: Robbins, Gary A., R.D. Bristol and V.D. Roe. 1989. A Field Screening Method for Gasoline Contamination Using a Polyethylene Bag Sampling Stytem. Ground Water Monitoring Review. v. 9 no. 4, pp. 87 - 97.

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				
Minimum Amount of Time Sample Must				
Ambient Outside Air Temperature Equilibrate at 70° F or Greater				
at Time of Sample Collection	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:

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- 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 UN-LESS INSTRUMENT READINGS HAVE BEEN CALI-BRATED 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. ILHR 10 Appendix B

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:

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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

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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 2inch 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.

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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 % 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.)

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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.