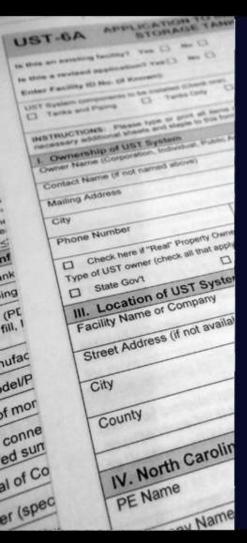
North Carolina Department of Environment and Natural Resources Underground Storage Tank Section

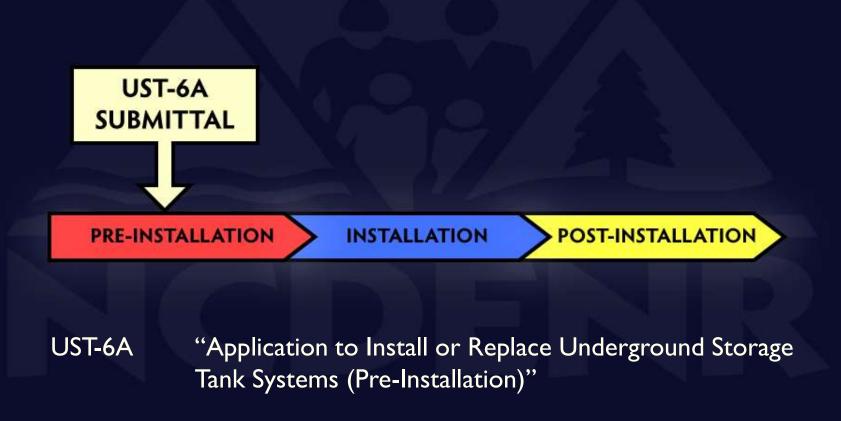


UST-6A

"Application to Install or Replace UST Systems (Pre-Installation)"



Installation Review Process Overview



Pre-Installation

30+ days in advance you must submit:

- UST-6A form
 "Application to Install or Replace
 UST Systems (Pre-Installation)"
- UST-6C form "Schedule of Materials"
- Engineered Drawings
- UST-20 form (potentially)

"Alternative Fuel / Hazardous Substances Compatibility Checklist"





It is recommended that you submit Financial Responsibility and Ownership information at this time.

in this an existing facility	is this an existing facility? Yes No			2000-0000	STATE USE	DNLY	
Is this a revised application? Yes \ No \ Enter Facility ID No. (If Known):			Application approved: Yes No Date Approved/Daspproved:				
							UST System components to be installed (Check one) Tanks and Plang Tanks Only Plang Only
INSTRUCTIONS: Please by recessary additional afwels a			t signeture. If more	than four (4) UST eyelores	are being insta	ited at the lac	My, photocopy th
L Ownership of UST Syr			The Control of the Control	II. Operator of UST Bys	tem	Check if	same as owner
Ovner Name (Corporation, In	sdvidusi, Public	Agency, or	Other Entry)	Operator Name (Corporato	n, Individual, P	ublic Agency, o	Other Entity)
Corded Name (First named)	alsoye)			Contact Name (If not name	(above)		
Mining Address				Maring Address			
ON;		State	Zip Code	Cêy		State	Zip Code
Phone Number	Face 64	uniber or E	-Mad Address	Phone Number	15	ox Number or E	Mail Address
				☐ Femeral Gort GSA.F	elle C		
Facility Name or Company Street Address (If not available		Tan Map Ni					
III. Location of UST Syst Facility Name or Conquery Street Actives (If not available City		Tan Map No	State		Zij Com	v E Mai Addo	**
Facility Name or Company Street Address (Find available City		Tan Map Ni			Zij Com	or E-Mail Addre	46
Facility Name or Company Street Activess (I not a reliable City County NV, North Carolina Profes	le, then County 1		State	V. General or Main Inst. Certrictor harns	Zu Code Fax Number		106
Facility Name or Company Shaut Actives (If not available City County IV. North Carolina Profes PE have	le, then County 1		State Phone Number	V. General or Main Inst. Contractor Name	Zip Code Fax Number alliation Con	ractor	46
Facility Name or Company Shaut Actives (If not evaluable City County IV. North Carolina Profes Fit hame Company Name	le, then County 1		State Phone Number	V. General or Main Inst. Contactor harns Project Manager Plane (if n	Zip Code Fax Number alliation Con	ractor	66
Facility Name or Conquery Shout Activess (I not evaluable City County IV. North Carolina Profes Pit Name Company Name Melling Address	ie, then County 1	cor	State Prone Number PE License No.	V. General or Main Inst Cerindor Name Project Manager Name (Fra Maing Address	Zip Code Fax Number alliation Con	ractor	200
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Facility Name or Conquery Street Actives (If not a reliable City County Nr. North Carolina Profet Pit hame Company Name Nating Address City Phone Nambes E-Mail Address VI. Applicant Certificatio I certify, under penalty of time tosted on my Inquiry of those	is then County 1 Solomal Engine Fino his that I have peen	ate umber ometig exam	State Phone Number PE License No. Phone Number	V. General or Main Inst Cortractor Name Proped Manager Fame (if m Maining Address City Phone Pamber E-Mel Address with the Information submits	Zip Code Fax featibles Fax featibles Fax Fax Fax Fax Fax Fax Fax Fa	Sple Number	Zip Code
Facility Name or Conjumy Sheat Actives (If not evaluate City County IM. North Carolina Profes Fit Name Company Name Nating Actives City Phone Namber E-Mail Address VI. Applicant Certificatio Lorety, under penally of time based on my Impany of those Brew Name	le, then County 1 Solomal Engine Facilities The Facilities that favor possessional responses	ate umber ometig exam	State Phone Number PE License No. Phone Number	V. General of Main Inst Cerimotor harns Project Manager Flame (if ro Maining Activess City Phone Flamber E-Mail Address with the information submits often, I believe that the submit	Zip Code Fax Number Cont attaction Cont of named above Fax and in this and a led information	Sple Number	Zip Code

Page 1

- Contact Information
- UST Facility Information
- Applicant Certification

UST-GA II Revised 33/

UST-6A

APPLICATION TO INSTALL OR REPLACE UNDERGROUND STORAGE TANK SYSTEMS (PRE-INSTALLATION)



Is this an existing facility? Ye	es 🗌 No 🗌		STATE Reviewer name:		NLY	
Is this a revised application? Y	ACCOMPANIED MARK STATE OF THE S		Application approved: Yes Date Approved/Disapprove	· 🗆	AND THE WAY	
UST System components to be insta	저 그렇게 됐는 것이 아이렇게 뭐는 그것!	iping Only	Piping Only - Emergency (Must prov a letter with emergency justification)	ide	Projected Inst USTs and/or	tallation Date for piping
INSTRUCTIONS: Please type or p necessary additional sheets and stap		signature. If more	than four (4) UST systems are being	install	ed at the faci	lity, photocopy the
I. Ownership of UST System			II. Operator of UST System		Check if	same as owner
Owner Name (Corporation, Individua	l, Public Agency, or O	ther Entity)	Operator Name (Corporation, Individu	al, Pul	blic Agency, or	r Other Entity)
Contact Name (if not named above)			Contact Name (if not named above)			
Mailing Address			Mailing Address			
City	State	Zip Code	City		State	Zip Code
Phone Number	Fax Number or E-N	Mail Address	Phone Number	Fax	Number or E	-Mail Address
☐ Check here if "Real" Property Owner Type of UST owner (check all that apply): ☐ State Gov't ☐ L	of Site	Private/Corporate	☐ Federal Gov't GSA Facility ID _	_		
III. Location of UST System	Marie Carlo Marie		The court is a second s			
Facility Name or Company						
Charles Address (front a mileble than	C	t - A				
Street Address (if not available, then	County Tax Map Num	iber):				
WA UST-6A					Page	21

"Application to Install or Replace Underground Storage Tank Systems (Pre-Installation)"

Type of UST owner (check all that apply): State Gov't Local	I Gov't □	Private/Corporate	☐ Federal Gov't GSA F	acility ID				
III. Location of UST System	27-18-4-1-1	to a control of the state of th	Control Control Manufacture Control Co					
Facility Name or Company								
Street Address (if not available, then Co	unty Tax Map Nu	imber):						
City	State			Zip Code				
County		Phone Number		Fax Number or E	E-Mail Addres	ss		
IV. North Carolina Professional E	ngineer		V General or Main Inst	tallation Contrac	ctor			
PE Name	THE RESERVE OF THE PARTY OF THE	PE License No.	V. General or Main Installation Contractor Contractor Name					
Company Name	Company Name			ot named above)				
Mailing Address			Mailing Address					
City	State	Phone Number	City		State	Zip Code		
Phone Number	Fax Number		Phone Number	Fax N	lumber			
E-Mail Address			E-Mail Address	IX:		7		
VI. Applicant Certification			NA.					
I certify, under penalty of law, that I have based on my inquiry of those individuals								
Print Name of App	licant		Print Title of	Applicant				
Company Nam	e		Telephor	ne No.				
Applicant Signat	ure		Date Signed					



UST-6A"Application to Install or Replace Underground Storage Tank Systems (Pre-Installation)"

Page 1

VII. UST information				
TANK IDENTIFICATION NO. (e.g., A, B, C or 1, 2, 3: Foomportment tank 1A, 1B, 1C, etc.)	Tank No	Taris No	Tark No	Tenk No
indicate if tank is N= new, U=used, or E=existing *				
Tank Manufecturer				
Tank Model				
Method of maniforing intensice. ¹				
Material of Construction *				
if Other (specify)				
Capacity (gallons) If compartment tank list compartment sizes.		- 1		
Check box, if tank to be installed by siphon manifolded and enter tank # it is to be manifolded with	0/	01	a .c.	D /
Product to be stored (if other specify below). *		- 2		
F Hazardous substance. Chemical Abstract Service (CAS) number		II.		
If Other (apecify)	1	- 61	74	- 1

- 1 No UST system can be installed within 50 feet of a human consumption well or within 100 feet of a public water supply well.
- ¹ If UST is "used" affacts a completed manufacturers re-partitioation checkled. If "existing", provide the tank capacity, product stored and as much other information as amiliable.
- Sinter one of the following choices: "VM*Vacuum Sensor, PR=Pressure Sensor, HVDROH-lydrostatio Fixed", LDS=Liquid Detecting (89); Sensor (sessing position-sensitive!", OTH-Other (specify type):

 **Tanks using liquid detecting (liqv) inversitable sensors rust alike be tested for fightness in accordance with 15A NCAC CON 0900H; & tanks using
- hydrostatic (well) interested versions must be dual-float/to monitor both low & high level attent conditions.

 Better one of the Stateng chacker, CVP FRPP** (a.g. Xercey, Contaminant Solutions), DIM* State(FRPP***) (a.g. ACT-100), DIM* State(Fro), LIM** State(Fro)
- ACT-100-U, OV' Sectionated in p. Permaner, Trans, Other.
 'TOW Double-valled... "TRP Ebergless Nainthood Pasts."

 Black over the following shoots: Avision Gas, Biodissel 9: 20% Diesel Min*, Diesel, Ethanol (> 10%) Ses, Min*, Flad Ot, Gasoline, Hazandous.
- Substance, Heating Ol. Kerceure, Mator Ol. Other Non-Petroleum, Other Petroleum, Transmission Plust, or Used Oli
 *Tanks with ≤20% Biodiosel should list the product as "Diese" and tanks with ≤10% Ethansi should list the product as "Secoline"

- 1 No UST system can be installed within 50 feet of a human consumption well or within 100 feet of a public water supply well
- If "existing", provide (minimally) the use, type of piping and configuration and as much other information as available.
- Enter one of the following choices: SS-Sump Sensor, VM-Vacuum Sensor, PR-Pressure Sensor, HYDRO-Hydrostatic Float, OTH-Other (specify type) Note that discriminating sensors must be set us to detect and alorm with all liquids.
- * Enter one of the following choices: DWF Flex (e.g. APT XP, GPW Flexoverks, UPF); DWF FREF* (e.g. Ameron Dueby 3000 LCX, NOV Fibergless Red Thread 8A), None, Other (Specify) "DW = Double-walled "FRP = Fibergless Reinforced Plastic
- * If detectable tapelvine is proposed, also list manufacture/mode number on UST-6C, tapervine width (gauge) & instalation depth on UST-6C or plans. Note that NC DENR may require documentation that the pipe can be located after installation for compliance with 15A NCAC 029 0004(d).

Page 2

- •UST Information
- Piping Information

UST-0A 2 Peysed 09/12

VII. UST Information ¹				
TANK IDENTIFICATION NO. (e.g., A, B, C or 1, 2, 3; If compartment tank 1A, 1B, 1C, etc.)	Tank No	Tank No	Tank No	Tank No
Indicate if tank is N= new, U=used, or E=existing ²		Ē.		
Tank Manufacturer				
Tank Model				
Method of monitoring interstice ³				
Material of Construction ⁴				
If Other (specify)				
Capacity (gallons) If compartment tank list compartment sizes.				
Check box, if tank to be installed is siphon manifolded and enter tank # it is to be manifolded with.	□ <i>l</i>		/	□ <i>l</i>
Product to be stored (If other specify below) 5				
If Hazardous substance, Chemical Abstract Service (CAS) number				
If Other (specify)	(7		
 No UST system can be installed within 50 feet of a heat of UST is "used" attach a completed manufacturers reinformation as available. Enter one of the following choices: , VM=Vacuum Se (usually position-sensitive)*, OTH=Other (specify type * Tanks using liquid detecting (dry) interstitial sensors hydrostatic (wet) interstitial sensors must be dual-flow for the following choices: DW* FRP** (e.g. 2) ACT-100-U), DW* Steel/Jacketed (e.g. Permatank, T *DW = Double-walled **FRP = Fiberglass Reinford Enter one of the following choices: Aviation Gas, Biod Substance, Heating Oil, Kerosene, Motor Oil, Other N 	e-certification checkli ensor, PR=Pressure e) s must also be teste at/(to monitor both lo Xerxes, Containmen itan), Other. ced Plastic diesel (> 20%) - Dies	st. If "existing", provide to Sensor, HYDRO=Hydro d for tightness in accorda w & high level alarm cort to Solutions), DW* Steel/ sel Mix*, Diesel, Ethanol	the tank capacity, product estatic Float*, LDS=Liquid ance with 15A NCAC 02N editions). FRP** (e.g. ACT-100), DV (> 10%) -Gas Mix*, Fuel	stored and as much other d Detecting (dry) Sensor N.0903(f) & tanks using N* Steel/Polyurethane (e.g
e with < 200/ Piodiagal should list the aradust s	e "Diocal" and tanks	with <10% Ethanol sho	uld list the product as "Co	peoline"
UST-6A				Page 2
"Application to Install or Replace U	nderground Sto	rage Tank Systems	(Pre-Installation)"	

UST-6A	Application t	o Install or Re	place U	Indergrou	nd Storage Tank S
VII. UST Info	ormation ¹				
	FICATION NO. (e.g., ant tank 1A, 1B, 1C, etc		Tank No		Tank No
Indicate if tank	k is N= new, U=used,	or E=existing ²			
Tank Manufac	turer				
Tank Model					
Method of mo	nitoring interstice 3				
Material of Co	nstruction 4		±		
If Other (spec	ify)	DW FDD			
Capacity (galle	ons) nt tank list compartn	DW FRP DW Steel/FRP			
	tank to be installed k # it is to be manifo	DW Steel/Polyuretha DW Steel/Jacketed	ine	_	
Product to be	stored (If other spe	Other			
If Hazardous s (CAS) number	substance, Chemical A	Abstract Service			
If Other (spec	ify)				



Note that the Microsoft Word version of the UST-6 forms includes many dropdown menus to aid in their completion

- hydrostatic (wet) interstitial sensors must be dual-float/(to monitor both low & high level alarm conditions).
- Enter one of the following choices: DW* FRP** (e.g. Xerxes, Containment Solutions), DW* Steel/FRP** (e.g. ACT-100), DW* Steel/Polyurethane (e.g. ACT-100-U), DW* Steel/Jacketed (e.g. Permatank, Titan), Other.
 - *DW = Double-walled **FRP = Fiberglass Reinforced Plastic
- Enter one of the following choices: Aviation Gas, Biodiesel (> 20%) Diesel Mix*, Diesel, Ethanol (> 10%) -Gas Mix*, Fuel Oil, Gasoline, Hazardous Substance, Heating Oil, Kerosene, Motor Oil, Other Non-Petroleum, Other Petroleum, Transmission Fluid, or Used Oil
- * Tanks with ≤20% Biodiesel should list the product as "Diesel" and tanks with ≤10% Ethanol should list the product as "Gasoline".

VIII. Piping Information ¹						
Associated Tank number						
Indicate if piping is N=new or E=existing ²						
Indicate use (PD=product distribution, M=manifold, RF=remote fill, PR=product return or OTH=other-specify)						
Piping Manufacturer						
Piping Model/Part No. (Manufacturer's)						
Method of monitoring interstice ³						
Flexible connections & other metal components in a monitored sump (yes, no or N/A)						
Material of Construction ⁴						
If Other (specify)						
Piping configuration (P=Pressurized, S=Suction or G=Gravity)						
Method that will be used to allow piping to be located once it is back-filled? ⁵						

- No UST system can be installed within 50 feet of a human consumption well or within 100 feet of a public water supply well.
- ² If "existing", provide (minimally) the use, type of piping and configuration and as much other information as available.
- Enter one of the following choices: SS=Sump Sensor, VM=Vacuum Sensor, PR=Pressure Sensor, HYDRO=Hydrostatic Float, OTH=Other (specify type)
 Note that discriminating sensors must be set up to detect and alarm with all liquids
- Enter one of the following choices: DW* Flex (e.g. APT XP, OPW Flexworks, UPP), DW* FRP** (e.g. Ameron Dualoy 3000 LCX, NOV Fiberglass Red Thread IIA), None, Other (Specify)
 *DW = Double-walled
 **FRP = Fiberglass Reinforced Plastic
- If detectable tape/wire is proposed, also list manufacturer/model number on UST-6C; tape/wire width (gauge) & installation depth on UST-6C or plans. Note that NC DENR may require documentation that the pipe can be located after installation for compliance with 15A NCAC 02N.0904(d).



Associated Tank number	$\overline{}$		$\overline{}$			
Spill Prevention Equipment Type (Enter Spill Bu	chat		-			
Other-specify, None, or Not Required 1	ALPANET.					
Indicate if equipment is New or Existing ²						
Spill Prevention Equipment Manufacturer						
Spill Prevention Equipment Model			\neg			
Method of Monitoring Intensice 3			-			
Does Spill Prevention Equipment have built-in a (Yes/No)?	roarr					
Not Required is only valid for USTs that are a	lveys file	d by transfers that	are 25 gallors	or less.		
If "existing", provide (minimally) the type of ex						
Enter one of the following choices: FS=Floet :				e Sensor, HYD	RO-Hydrostatic Float, O	TH=Other (specify typ
Note that discriminating sensors must be set	up to dete	ot and alarm with	all Figurids			
K. Overfill Prevention Equipment Note:	Ball Float	ts cannot be use	d with coaxie	l vapor recov	ery or suction piping s	systems.
Overfill Prevention Equipment Type						
(Enter Automatic shutoff ¹ , Alarm at tank, Ball fo None, or Not Required ³)	sat ^{s.d} .					
indicate if equipment is New or Esisting*						
Overfill Prevention Equipment Manufecturer						
Overfill Prevention Equipment Model						
Ball Floats cannot be used with coaxial vapor Not Required is only voild for USTs that are at	lvays file	d by transfers that	are 25 gallons			
" If "existing", provide (minimally) the type of ex					different appealant LICE	a shift in final h.
XI. Vapor Recovery Mark the Note: the following pasoline USTs are not requi					d for all gasoline UST:	
scilities that have a combined throughput of less	a then 50.	000 gallors per ye	ar. If vapor re	covery is not re	quired for a UST at this	facility, then the last be
in this section should be marked. If you have an						
n this section should be marked. If you have an Indicate if equipment is New or Ex	xisting					
n this section should be marked. If you have an						
n this section should be marked. If you have an Indicate if equipment is New or Ex	yatem					
n this section should be marked. If you have an Indicate if equipment is New or Ex Coastal s	yatem yatem					
in this section should be marked. If you have an Indicate if equipment is New or El Costolal a Quel point o	yatem yatem					
in this section should be marked. If you have an Indicate if equipment is New or E) Contain to Qual point o Vapor necovery is not required for this XII. Containment Sumps Erier the numbers(s) in each column that will he mange of sump numbers in one column. Contain mange of sump numbers in one column. Contain	ystem ystem s UST	ne make/model of		In pa. If all con	birment sumps will be to	be same then lat the
in this section should be marked. If you have an indicate if equipment is Nive or E. Costall is Qual point o Vapor recovery is not required for this XB. Containment Sumpe Erfer the number(s) in each column that will have surge of sump numbers in one column. Contain surge shift have following the column.	ystem ystem s UST	ne make/model of		In pa. If all con	birment sumps will be to	be same then lat the
In this section should be marked. If you have an indicate if equipment is New or E) Costain a Quel point o Quel point o Vapor recovery is not required for this VIB. Containment Sumps There the number(s) in each column that will have report out on the point of the	ystem ystem s UST	ne make/model of		In pa. If all con	birment sumps will be to	be same then lat the
Influence of the marked. If you have an indicate if equipment is Nive or E. Coerasi is Qual point o Vepor recovery is not required for this Vepor recovery is not required to the Vepor recovery is not required to Vepor recovery is not required. Enter the number(i) in each column that will have surps that have that make have been surps that have that make have less that I year Number I make the surps I year Number I make the surps are New or Existing I make the surps are New or Existing I was a surps I was a su	ystem ystem s UST	ne make/model of		In pa. If all con	birment sumps will be to	be same then lat the
In this section should be marked. If you have an indicate if equipment is New or E3 Costals is Qual point of Costals is Qual point of Vapor necovery is not required for this XIII. Containment Sumpe Erfer the number(s) in sech oburns that will having a sump numbers in one column. Contain using that have that make/repet to the result of the residence of sump numbers in one column. Contain using that have that make/repet is sump Typer/Number. Sump Typer/Number.	ystem ystem s UST	ne make/model of		In pa. If all con	birment sumps will be to	
in this section should be marked. If you have an indicate if equipment is New or E. Costali is Dual point or Vapor recovery is not required for this	ystem ystem s UST	ne make/model of		In pa. If all con	birment sumps will be to	be same then lat the

Page 3

- •Spill Prevention Equipment
- •Overfill Prevention Equipment
- Vapor Recovery
- Containment Sumps

UST-6A 3 Revised 03/12

UST-6A Application to Install or Replace Underground Storage Tank Systems (Pre-Installation) IX. Spill Prevention Equipment Associated Tank number Spill Prevention Equipment Type (Enter Spill Bucket, Other-specify, None, or Not Required 1) Indicate if equipment is New or Existing² Spill Prevention Equipment Manufacturer Spill Prevention Equipment Model Method of Monitoring Interstice 3 Does Spill Prevention Equipment have built-in sensor (Yes/No)? Not Required is only valid for USTs that are always filled by transfers that are 25 gallons or less. If "existing", provide (minimally) the type of equipment and as much other information as available

Enter one of the following choices: FS=Float Sensor, VM=Vacuum Sensor, PR=Pressure Sensor, HYDRO=Hydrostatic Float, OTH=Other (specify type) Note that discriminating sensors must be set up to detect and alarm with all liquids

X. Overfill Prevention Equipment Note: Ball Floats cannot be used with coaxial vapor recovery or suction piping systems.

Overfill Prevention Equipment Type		
(Enter Automatic shutoff ¹ , Alarm at tank, Ball float ^{1,2} , None, or Not Required ³)		
Indicate if equipment is New or Existing ⁴		
Overfill Prevention Equipment Manufacturer		
Overfill Prevention Equipment Model		

When installing an automatic shut off device, do not install a ball float valve unless the ball float is set to activate at a level higher in the tank than the automatic shut-off device. Only show the primary overfill prevention device in this section.

- Ball Floats cannot be used with coaxial vapor recovery or suction piping systems.
- Not Required is only valid for USTs that are always filled by transfers that are 25 gallons or less.

#sting", provide (minimally) the type of equipment and as much other information as available



"Application to Install or Replace Underground Storage Tank Systems (Pre-Installation)"

Page 3

pacity, and b) en the last box

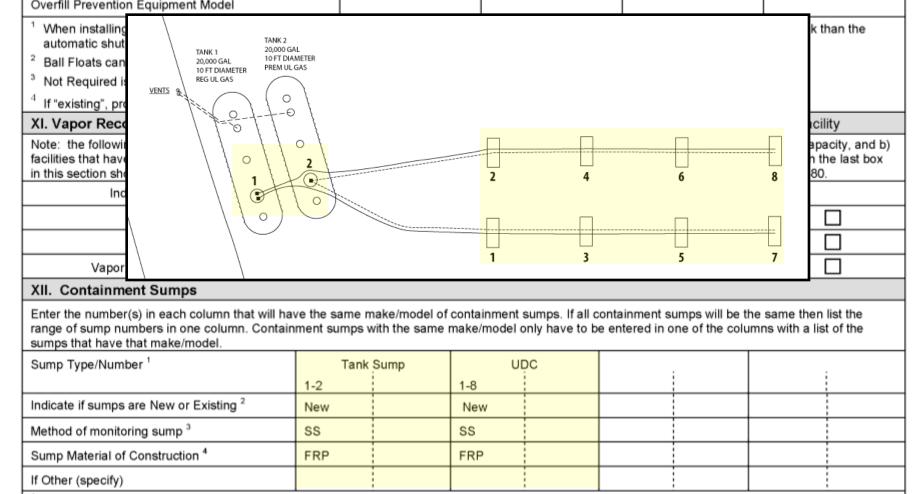
nould be marked. If you have any questions about stage I vapor recovery, please call the Air Quality Section at (919) 763-1480.

Indicate if equipment is New or Existing

Overfill Prevention Equipment Model									
When installing an automatic shut off device, do not install a ball float valve unless the ball float is set to activate at a level higher in the tank than the automatic shut-off device. Only show the primary overfill prevention device in this section.									
² Ball Floats cannot be used with coaxial vapor recovery or suction piping systems.									
Not Required is only valid for USTs that are always filled by transfers that are 25 gallons or less.									
4 If "existing", provide (minimally) the type of equipment and as much other information as available									
XI. Vapor Recovery Mark the type(s) of Stage 1 vapor recovery that will be used for all gasoline USTs at this facility									
Note: the following gasoline USTs are not required to have Stage I vapor recovery equipment: a) new USTs that are 500 gallons or less in capacity, and b) facilities that have a combined throughput of less than 50,000 gallons per year. If vapor recovery is not required for a UST at this facility, then the last box in this section should be marked. If you have any questions about Stage I vapor recovery, please call the Air Quality Section at (919) 733-1480.									
Indicate if equipment is New or Ex	xisting								
Coaxial s	ystem								
Dual point s	ystem								
Vapor recovery is not required for this	s UST								
XII. Containment Sumps									
Enter the number(s) in each column that will have range of sump numbers in one column. Contains sumps that have that make/model.									
Sump Type/Number ¹		i	į		į	i			
Indicate if sumps are New or Existing ²									
Method of monitoring sump ³									
Sump Material of Construction ⁴									
If Other (specify)									
Discrete that existing sumps, connected to replace the sumps of the following choices: SS=Sump Note that discriminating sensors must be set a Enter one of the following choices: Plastic, FR	ement po Sensor, up to det	iping, will be required , VM=Vacuum Sensor ect and alarm with all	to be monitored and tes , PR=Pressure Sensor, liquids		. ,	TH=Other (specify type)			

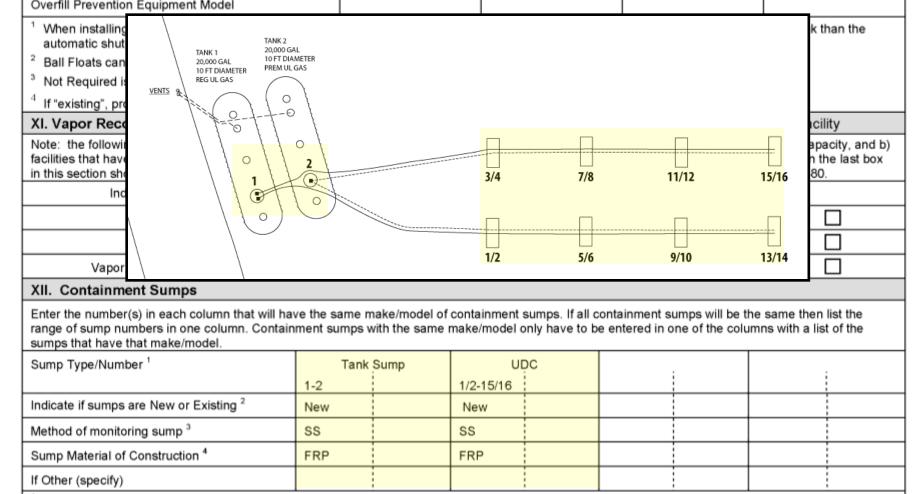


UST-6A"Application to Install or Replace Underground Storage Tank Systems (Pre-Installation)"



- 1 Enter one of the following choices: Tank sump, UDC (dispenser), transition, other type of sump
- Note that existing sumps, connected to replacement piping, will be required to be monitored and tested for integrity
- Enter one of the following choices: SS=Sump Sensor, VM=Vacuum Sensor, PR=Pressure Sensor, HYDRO=Hydrostatic Float, OTH=Other (specify type) Note that discriminating sensors must be set up to detect and alarm with all liquids
- Enter one of the following choices: Plastic, FRP (Fiberglass Reinforced Plastic), Other





- 1 Enter one of the following choices: Tank sump, UDC (dispenser), transition, other type of sump
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UST-6A Application to Install or Replace Underground S	torage Tank S	ystems	(Pre-in	stallati	on)	部
XIII. Leak Detection (LD)		OBUSEPHOODILE		-	-	Name and Address
Associated Tank number						
Wentering console menufacture/model						
Indicate if New or Existing Equipment						
Automotic Line Leak Delector (ALLD) Equipment Typis(ELLD or MILLD)						
ALLD Merufacturer/Model						
Indicate #10-new or E-existing Equipment*				1		
A reactive cod SICLO; or electronic (ELLD) the book defector is required for all presented papers. If analogy, include (principle) the type of ALLD and as much other information as analothele.	systems. They ment by	lasted arress	fa			
XW. Work Proposed						
						=
XV. Attachments						
The state of the s	_ v					
Two copies of UST System design plans which include the following: • A 11" x 17" Scale Drawing prepared by a North Carolina Professional	_ Y					
Two copies of UST System design plans which include the following: • A 11" x 17" Scale Drawing prepared by a North Caroline Podessonal Engineer attached: • UST-SC, Application to Install or Replace Underground Storage Tank	D v		N/A			

Page 4

- Leak Detection
- Scope of Work
- Attachments

UST-GA 4 Revend GV

UST-6A Application to Install or Re	place Undergrou	nd Storage Tank	Systems (Pre-Inst	allation)
XIII. Leak Detection (LD)				
Associated Tank number				
Monitoring console manufacturer/model				
Indicate if New or Existing Equipment				
Automatic Line Leak Detector (ALLD) Equipment Type(ELLD or MLLD) ¹				
ALLD Manufacturer/Model				
Indicate if N=new or E=existing Equipment ²				
 A mechanical (MLLD) or electronic (ELLD) line leak detector If existing, indicate (minimally) the type of ALLD and as much 			e tested annually.	
XIV. Work Proposed				
New installation, expansion or replacement? (Describe	work. If piping replaceme	nt, also explain reason &	condition of other existing	piping, as applicable):
YV Attachments				



nies of UST System design plans which include the following:

UST-6A

Page 4

"Application to Install or Replace Underground Storage Tank Systems (Pre-Installation)"

#		
XV. Attachments		
Two copies of UST System design plans which include the following: • A 11" x 17" Scale Drawing prepared by a North Carolina Professional Engineer attached.	Yes	
 UST-6C, Application to Install or Replace Underground Storage Tank Systems (Schedule of Materials) attached. 	Yes	
Tank manufacturer's re-certification checklist is attached? (Only required for "used" tanks being reinstalled)	Yes	N/A
UST-20, "Alternative Fuel /Hazardous Substances Compatibility Checklist" (Only required for > 20% Rio-Diesel > 10% Ethanol or Hazardous substances)	Yes	N/A

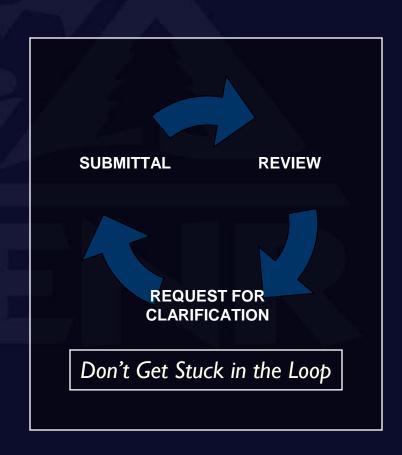


Use "XV. Attachments" as a checklist to aid in completion of the UST-6A

UST-6A Approval

If UST system design is not satisfactory:

- State will request additional information to correct minor deficiencies
- State may return application if severely deficient
- Deficient applications will result in delayed approval



UST-6A Approval

If UST system design is satisfactory:

- State issues an approval to construct letter including the name and contact information of your UST inspector
- Installation may begin
- Two inspections are required during installation





North Carolina Department of Environment and Natural Resources

Division of Waste Management

Beverly Eaves Perdue Governor Dexter R. Matthews Director Dee Freeman Secretary

May 01, 2012

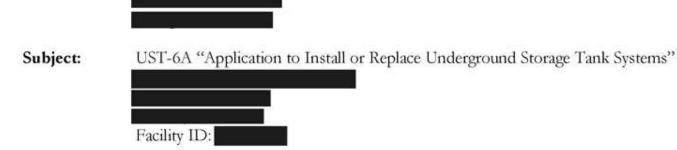
Contractor:

Engineer:

Subject:

UST-6A "Application to Install or Replace Underground Storage Tank Systems"





Dear

The North Carolina Department of Environment and Natural Resources (NCDENR) – Underground Storage Tank (UST) Section has reviewed the subject UST-6A "Application to Install or Replace Underground Storage Tank Systems (Pre-Installation)", received 04/12/2012 and additional information submitted on 05/01/2012. Based on your submittal, your application to install or replace UST systems at the above location is approved. This approval is limited to the tank and piping system specified in the aforementioned application and is valid for one year. Any modifications to the approved application must be approved by the design engineer. Significant modifications need to be submitted to NCDENR for review and approval prior to installation (see enclosed "Guidance on UST-6A Modifications" for additional information).

Be advised that new tanks and piping cannot be installed in areas where it will be in contact with contaminated soil or free product. If evidence of a release has been discovered or confirmed, the UST Section Regional Office Corrective Action Branch must be notified and initial response/abatement activities must be completed prior to initiating UST installation or replacement activities. Please refer to the UST Section's new website (http://portal.ncdenr.org/web/wm/ust/ustmain) for UST Section Regional Office locations/contact information and for the UST Section's Guidelines for Site Checks, Tank Closure and Initial Response and Abatement for UST Releases.





Note that all components of the UST system must be tested in accordance with manufacturer's guidelines, PEI/RP100 and 15A NCAC 2N, Section 0900. This includes, but is not limited to the following:

- The Veeder Root Position-Sensitive #794380-323 sensor shall be installed in accordance with the Modern Welding Company "Annular (Interstitial) Space Sensor Positioning" instructions (enclosed FYI). Tank owners or operators will need to test the sensor and maintain written records in accordance with the manufacturer's guidelines and 15A NCAC 02N.0901. The installation and annual operability check shall also include documentation of the "Sensor Out" alarm and "normal" conditions for this sensor.
- Periodic integrity testing of the tank interstitial space shall be conducted, in accordance with the "Evaluation of the Glasteel Interstitial Monitor for Liquid Leaks", prepared for the Modern Welding Company, Inc., as revised by Ken Wilcox Associates, Inc (December, 2011) and written records maintained, as required by 15A NCAC 02N.0903. Be advised that the periodic integrity testing must be conducted before UST system start-up (during installation), between six months and the first anniversary of start-up and every three years thereafter. This testing must be done in accordance with the Modern Welding "Periodic Interstitial Test Procedure", revised 01/04/2012 and for the test times specified for the specific tank size (10K: 11 hours, 20K: 17 hours). This interstitial test information shall be recorded on the UST-6E form and submitted with the UST-6B application (please use the revised UST-6E form and other UST-6B forms which are available on our website).
- The resultant data shall be submitted with the UST-6B application within thirty (30) days after installation. operability test data and sensor printouts shall also be submitted to confirm that the equipment was installed and tested in accordance with the manufacturer's written guidelines.

During the installation of your UST system, you are required to schedule an installation inspection with UST Section personnel. The following phases of the UST system installation must be inspected:

- 1. Exterior tank surface inspection and tank integrity testing prior to placing the tanks into the excavation; and
- 2. Testing of all piping, fittings and containment sumps prior to burial of the product piping. Note that the detectable tape (specified on the UST-6C form) must be on-site during the inspection.

Example UST-6A Approval Letter

Page 2 propose to

inspector so that a mutually convenient inspection date may be arranged on or around your proposed date. You should

personner. The ronowing phases of the Coll system motimation must be inspected.

 Exterior tank surface inspection and tank integrity testing prior to placing the tanks into the excavation; and

Testing of all piping, fittings and containment sumps prior to burial of the product piping. Note that the detectable tape (specified on the UST-6C form) must be on-site during the inspection.

The UST inspector for the above location is Caroline Huertas and she can be reached at (919) 851-3906. You are required to schedule this inspection a minimum of 2 work days (not including weekends or holidays) prior to the day you propose to commence the activity. Prior to finalizing the schedule of the installation activity, it is recommended that you contact the inspector so that a mutually convenient inspection date may be arranged on or around your proposed date. You should provide one or more weeks notice to have a better chance that your proposed installation date is open on the inspector's calendar. Note that inspections cannot be scheduled for weekends or state holidays. If you have any questions feel free to contact me.

Sincerely,

Robert E. Johns, P.E.

Underground Storage Tank Section

Phone & Fax: (919) 707-8162

Email: Robert.Johns@ncdenr.gov

Enclosure: Guidance on UST-6A Modifications

cc: Caroline Huertas, UST Inspector

cc: Registration File



Modifications to an Approved UST-6A

Minor Modifications

- Installation of UST with a different capacity than what was originally proposed
- Installation of a different but equivalent make and model piece of UST equipment
- Installation of UST equipment in a slightly different location on the property



Contractors must check with the design engineer prior to making minor modifications to the UST system design



Modifications to the approved UST-6A require that the as-builts be sealed by the engineer, with all changes clearly indicated

Modifications to an Approved UST-6A

Significant Modifications

- Installation of additional tanks, piping, sumps or dispensers
- Installation of a different and non-equivalent make and model piece of UST equipment
- Installation of UST equipment outside of the general area of where it was originally proposed
- Elimination of UST equipment that may affect compliance with I5A NCAC 2N



Significant modifications require the submittal and approval of a revised UST-6A

North Carolina Department of Environment and Natural Resources Underground Storage Tank Section



Questions?

