

NCDEQ UST SECTION GUIDANCE ON UST-6 MODIFICATIONS



Certain requirements must be met prior to making any modifications to the UST-6 “Application to Install or Replace Underground Storage Tank Systems (Pre-installation)” (i.e., UST-6A) submittal that has been approved by the NCDEQ UST Section. Modifications are categorized as minor and significant (see table); and they have different requirements, which are discussed after the table below”

	Minor Modifications	Significant Modifications
TANKS	Installing USTs of a different capacity	Installing additional USTs
PIPING	Shortening/lengthening piping originally proposed, including to additional containment sumps (see "Containment Sumps" below)	Installing additional piping runs with different origin and/or destination than originally proposed
CONTAINMENT SUMPS	Increasing the quantity of containment sumps with the same manufacturer, model, and use as specified in the approved UST-6 (Pre-Install) submittal	Installing additional containment sumps with a different manufacturer, model, and/or use than specified in the approved UST-6 (Pre-Install) submittal
EQUIVALENT COMPONENTS	Installing different but equivalent UST system components	Installing different and non-equivalent UST system components
ELIMINATION OF COMPONENTS	Eliminating proposed UST system components that will not potentially impact compliance with NC Administrative Code 15A NCAC 02N.	Eliminating proposed UST system components that will potentially impact compliance with NC Administrative Code 15A NCAC 02N.
LOCATION OF COMPONENTS	Installing UST system components in close proximity to the existing proposed location.	Installing UST system components in a completely different location on the property

Note: For UST system design plans previously approved by NCDEQ-UST Section, all modifications to these plans require:

- 1) The modified UST system design is acceptable to a professional engineer (P.E.) licensed in North Carolina,
- 2) All modifications are documented in the post-installation submittal (e.g., UST-6B, as-builts, etc.). Modifications should be called out with cloud revision symbols.

Minor modifications to UST system design plans approved by NCDEQ – UST Section are allowed without submitting a revised UST-6A (Pre-install) form for review and approval provided that:

- 1) The UST Section is provided with a brief list of the proposed changes via email at ust-installation@deq.nc.gov, so that all appropriate UST Section staff can be notified of the changes in advance of being made.

Significant modifications to UST system design plans approved by NCDEQ – UST Section may require the submittal of a revised UST-6A (Pre-Install) for review and approval prior to proceeding. To determine whether a new UST-6A is necessary, an email should be sent to ust-installation@deq.nc.gov with the follow information:

- 1) The modifications being proposed to the approved UST-6A (Pre-Install) design,
- 2) The status of the installation work (e.g., installation is ongoing, installation has not begun),
- 3) The nature of the situation and reason why the changes are being made.

A sketch of the proposed design changes may be necessary depending on the complexity of changes. For situations where the proposed changes to the UST system design are greatly different from what was originally proposed or are complicated enough that the information cannot be conveyed in a sketch, an amended UST-6A (Pre-Install) submittal may need to be submitted for review.

If an amended UST-6A (Pre-Install) submittal is necessary, the UST Section will seek to expedite its review so that installation work can proceed expeditiously. The NCDEQ UST inspector is not authorized to approve installations where significant modifications were made without a revised UST-6A (Pre-install) approval.

If you have any questions, please contact us at ust-installation@deq.nc.gov.

EXAMPLES OF MINOR VERSUS SIGNIFICANT MODIFICATIONS (TANKS)

11.1 UST – General				
11.1.1	TANK IDENTIFICATION NO. (e.g., A, B, C or 1, 2, 3; If compartment tank 1A, 1B, 1C, etc.)	Tank No. 1A	Tank No. 1B	Tank No.
11.1.2	Indicate if tank is N= new, U=used, or E=existing ¹	New	New	
11.1.3	Capacity (gallons) If compartment tank, list compartment size.	12,000	8,000	
11.2 UST – Product Stored				
11.2.1	Product stored or to be stored (if other specify below) ²	Gasoline	Gasoline	
11.2.2	If Other (specify)			
11.2.3	If hazardous substance, provide Chemical Abstract Service (CAS) number			
11.3 UST – Construction				
11.3.1	Tank manufacturer	Able	Baker	
11.3.2	Tank model	Alpha	Beta	
11.3.3	Materials of construction ³	DW FRP	DW FRP	

Example of USTs as Proposed on Originally Approved UST-6A (Pre-Install)

11.1 UST – General				
11.1.1	TANK IDENTIFICATION NO. (e.g., A, B, C or 1, 2, 3; If compartment tank 1A, 1B, 1C, etc.)	Tank No. 1A	Tank No. 1B	Tank No.
11.1.2	Indicate if tank is N= new, U=used, or E=existing ¹	New	New	
11.1.3	Capacity (gallons) If compartment tank, list compartment size.	15,000	10,000	
11.2 UST – Product Stored				
11.2.1	Product stored or to be stored (if other specify below) ²	Gasoline	Gasoline	

Installing tanks of a different capacity would be considered a minor modification

11.1 UST – General				
11.1.1	TANK IDENTIFICATION NO. (e.g., A, B, C or 1, 2, 3; If compartment tank 1A, 1B, 1C, etc.)	Tank No. 1A	Tank No. 1B	Tank No. 3
11.1.2	Indicate if tank is N= new, U=used, or E=existing ¹	New	New	New
11.1.3	Capacity (gallons) If compartment tank, list compartment size.	12,000	8,000	10,000
11.2 UST – Product Stored				
11.2.1	Product stored or to be stored (if other specify below) ²	Gasoline	Gasoline	Diesel
11.2.2	If Other (specify)			
11.2.3	If hazardous substance, provide Chemical Abstract Service (CAS) number			
11.3 UST – Construction				
11.3.1	Tank manufacturer	Able	Baker	Charlie
11.3.2	Tank model	Alpha	Beta	Gamma
11.3.3	Materials of construction ³	DW FRP	DW FRP	DW Steel/Jacketed

Installation additional tanks would be a significant modification

EXAMPLES OF MINOR VERSUS SIGNIFICANT MODIFICATIONS (PIPING)

12.1	Piping System – General				
12.1.1	Tank # (associated with piping) ¹	Tank 1	Tank 2	Tank 3	
12.1.2	Indicate if piping is N=new or E=existing ²	New	New	New	
12.1.3	Indicate piping use/application ³	Product Distribution	Product Distribution	Product Distribution	
12.1.4	If Other (specify)				
12.1.5	Piping configuration (PR=Pressurized, SU=Suction, SI=Siphon or GR=Gravity)	Pressurized	Pressurized	Pressurized	
12.2	Piping System – Construction				
12.2.1	Piping manufacturer	Able	Baker	Charlie	
12.2.2	Piping model	Alpha	Beta	Gamma	
12.2.3	Material of construction ⁴	DW FRP	DW Flex	DW FRP	

Example of UST Piping System as Proposed on Originally Approved UST-6A (Pre-Install)

12.1	Piping System – General				
12.1.1	Tank # (associated with piping) ¹	Tank 1	Tank 2	Tank 3	
12.1.2	Indicate if piping is N=new or E=existing ²	New	New	New	
12.1.3	Indicate piping use/application ³	Product Distribution	Product Distribution	Product Distribution	
12.1.4	If Other (specify)				
12.1.5	Piping configuration (PR=Pressurized, SU=Suction, SI=Siphon or GR=Gravity)	Pressurized	Pressurized	Pressurized	
12.2	Piping System – Construction				
12.2.1	Piping manufacturer	Able	Baker	Dog	
12.2.2	Piping model	Alpha	Beta	Delta	
12.2.3	Material of construction ⁴	DW FRP	DW Flex	DW FRP	

Installing a different manufacturer and/or model of piping that was equivalent would be considered a minor modification

12.1	Piping System – General				
12.1.1	Tank # (associated with piping) ¹	Tank 1	Tank 2	Tank 3 - Line 1	Tank 3 - Line 2
12.1.2	Indicate if piping is N=new or E=existing ²	New	New	New	New
12.1.3	Indicate piping use/application ³	Product Distribution	Product Distribution	Product Distribution	Product Distribution
12.1.4	If Other (specify)				
12.1.5	Piping configuration (PR=Pressurized, SU=Suction, SI=Siphon or GR=Gravity)	Pressurized	Pressurized	Pressurized	Pressurized
12.2	Piping System – Construction				
12.2.1	Piping manufacturer	Able	Baker	Charlie	Charlie
12.2.2	Piping model	Alpha	Beta	Gamma	Gamma
12.2.3	Material of construction ⁴	DW FRP	DW Flex	DW FRP	DW FRP

Installing additional piping with a different origin and/or destination than what was originally proposed would be considered a significant modification

EXAMPLES OF MINOR VERSUS SIGNIFICANT MODIFICATIONS (CONTAINMENT SUMPS)

14.1	Containment Sumps - General				
14.1.1	Containment sump identifier / name (e.g., Disp. 1/2 - 7/8, Tank 1-3, etc.)	Tank 1, 2, 3	Disp 1/2 - 3/4		
14.1.2	Quantity of containment sumps of this type	3	2		
14.1.3	Containment sump type ¹	Tank Top Sump	UDC Sump		
14.1.4	If Other (specify)				
14.1.5	Indicate if containment sump is N=new or E=existing ²	New	New		
14.2	Containment Sumps - Construction				
14.2.1	Containment sump manufacturer	Able	Baker		
14.2.2	Containment sump model	Alpha	Beta		
14.2.3	Material of construction ³	FRP	Plastic		

Example of UST Containment Sumps as Proposed on Originally Approved UST-6A (Pre-Install)

14.1	Containment Sumps - General				
14.1.1	Containment sump identifier / name (e.g., Disp. 1/2 - 7/8, Tank 1-3, etc.)	Tank 1, 2, 3	Disp 1/2 - 7/8		
14.1.2	Quantity of containment sumps of this type	3	4		
14.1.3	Containment sump type ¹	Tank Top Sump	UDC Sump		
14.1.4	If Other (specify)				
14.1.5	Indicate if containment sump is N=new or E=existing ²	New	New		
14.2	Containment Sumps - Construction				
14.2.1	Containment sump manufacturer	Able	Baker		
14.2.2	Containment sump model	Alpha	Beta		
14.2.3	Material of construction ³	FRP	Plastic		

Installing additional containment sumps with an identical manufacturer, model, and use as originally proposed on the approved UST-6A (Pre-Install) would be considered a minor modification

14.1	Containment Sumps - General				
14.1.1	Containment sump identifier / name (e.g., Disp. 1/2 - 7/8, Tank 1-3, etc.)	Tank 1, 2, 3	Disp 1/2 - 3/4	Transition Sump #1	
14.1.2	Quantity of containment sumps of this type	3	2	1	
14.1.3	Containment sump type ¹	Tank Top Sump	UDC Sump	Transition Sump	
14.1.4	If Other (specify)				
14.1.5	Indicate if containment sump is N=new or E=existing ²	New	New	New	
14.2	Containment Sumps - Construction				
14.2.1	Containment sump manufacturer	Able	Baker	Charlie	
14.2.2	Containment sump model	Alpha	Beta	Gamma	
14.2.3	Material of construction ³	FRP	Plastic	Plastic	

Installing additional containment sumps with a different manufacturer, model, and/or use than specified on the approved UST-6 (Pre-Installation) would be considered a significant modification