



ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION
 UNDERGROUND STORAGE TANKS
Operations Inspection Report
2017



Instructions: Only a person currently licensed by the State of Alaska in UST Inspection may complete this form. Detailed instructions are in the ADEC *UST Operations Inspector Reference Handbook*, available at ADEC or online at these links: <http://dec.alaska.gov/spar/PPR/docs/manual1.pdf> and <http://dec.alaska.gov/spar/PPR/docs/manual2.pdf>

SECTION 1: FACILITY INFORMATION

FACILITY NAME:	OWNER NAME:
Physical Address:	Mailing Address:
City:	City, State, Zip:
Phone:	Phone: Fax:
UST CLASS A/B OPERATOR:	MAILING ADDRESS FOR COMPLIANCE TAG DECALS:
Phone:	Name:
Fax:	Address:
E-mail:	City, State, Zip:

ADEC Facility Number	Inspection Date	UST Inspector License #	UST Inspector Name	Are all the UST systems on site registered? <input type="checkbox"/> Yes <input type="checkbox"/> No	Compliance Tags are posted in clear visible proximity to fill risers? <input type="checkbox"/> Yes <input type="checkbox"/> No

Certificate(s) for current Class A and B Operator(s) are hand: Yes No *If "No," Explain:*
 Class C Operator Certificate(s) are current (annual refresher): Yes No

Use the **ADEC Tank number** on the first line and the **Compliance Tag number** on the second line. Inspect each compartment as if it were an individual tank, and label compartmented tanks as "1A" and "1B," for example. ***Double-wall piping** refers to the piping material that was factory-made and designed to be installed as double-wall, or as a "petroleum-compatible material that is swage-locked, or welded on each end of the outer wall," installed to create a fluid-tight interstitial space; other outer wall types are 'secondary' or 'chase.' Note changes or corrections.

ADEC TANK NUMBER:	TANK #	TANK #	TANK #	TANK #
COMPLIANCE TAG NUMBER:	TAG #	TAG #	TAG #	TAG #
C-TAG EXPIRATION YEAR:				
Owner Tank number, <i>if different</i>	#	#	#	#
Status (<i>Active or Taken Out of Service</i>)				
Capacity (<i>Volume in Gallons</i>)				
Product (<i>specify type of petroleum</i>)				
Tank Construction Material				
Compartment Tank (<i>Yes or No</i>)				
Double-Wall Tank (<i>Yes or No</i>)				
Piping Type (<i>Suction or Pressurized</i>)				
Pipe Outer-Wall Construction Material				
Double-Wall Piping* (<i>Yes or No</i>)				
Multiple Pipe Runs per tank (<i>Yes or No</i>) Show all pipe runs on Site Sketch, <i>page 2</i>				
Emergency Power Generator (<i>Yes or No</i>)				

QUESTIONS?

PHONE: 907-269-7679
 fax: 907-269-7687

EMAIL: CHERYL.PAIGE@ALASKA.GOV
<http://dec.alaska.gov/spar/csp/tanks.htm>

The UST Inspector must submit this report to the owner/operator for review, initials and signature, then submit the **ORIGINAL REPORT**, *within 30 days* of the inspection, but *no later than September 30* of this inspection year to:
ADEC SPAR Underground Storage Tanks **555 Cordova Street Anchorage, AK 99501-2617**

Inspector's Initials _____
 Date _____

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Owner/Operator's Initials: _____
 Date: _____

SITE SKETCH: a basic layout of the UST SYSTEM. **Indicate North.** Reference streets or landmarks.

LEGEND KEY

- (T) Tank, include ADEC Tank #
(identify all compartments)
- (P) Product piping
- (PS) Piping sumps
- (ATG) Automatic Tank Gauge or Monitor
- (SP) Spill Buckets
- (OP) Overfill Alarm
- (IM) Tank Interstitial Monitoring Access
- (MG) Tank Manual-Gauging Access
- (RCT) Rectifiers
- (AN) Impressed Current Anodes
- (R₁, R₂, etc.) Reference-cell locations for CP
- (T₁, T₂, P₁, etc.) Structure CP Contact Points
- (V) Vents
- (D) Dispensers
- Indicate ↑ North Arrow
- Add GPS Coordinates *OR*
- Add Street(s) or Building landmarks

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Date _____

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Owner/Operator's Initials: _____
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SECTION 2: TANK TEMPORARILY CLOSED OR TAKEN-OUT-OF-SERVICE

- Complete this section if a UST system is "temporarily closed" (contains product but is out-of-service less than three months) *or* is "taken out-of-service," meaning an *Empty Tank Affidavit* (ADEC Form 18-0503) is filed at ADEC. A complete inspection is required.
- Substandard:** a UST system that is not in compliance with Title 18 Alaska Administrative Code (AAC) 78 *Underground Storage Tanks* regulations and industry standards is defined as *substandard* and **must be permanently closed** within 12 months (18 AAC 78.080(e)-(f)).

STATUS OF TEMPORARILY CLOSED (TC) OR TAKEN OUT OF SERVICE (TOS) TANKS	TANK #	TANK #	TANK #	TANK #
Tank contains less than one inch of product <i>[YES OR NO]</i>				
Tank is vented; fill riser, components, and manways are locked/secured				
Date tank was "temporarily closed" or "taken out-of-service" (MONTH/YEAR)				

SECTION 3: RELEASE DETECTION

- Inspection requirements for release detection and monitoring are in sections matching the methods listed in 18 AAC 78.065.
- Exemption from Leak Detection Recordkeeping may be allowed if the:
 - UST system supplies an Emergency Generator (until October 2018), *or*
 - Notice of Tank Taken Out-of-Service* (ADEC Form 18-0502) *with* an *Empty Tank Affidavit* (ADEC Form 18-0503) was filed.
- Automatic Tank Gauging (ATG)** refers specifically to a release detection method which performs a 0.2 gph leak rate test on the part of the tank that routinely contains fuel, at least once each 30 days, to meet 18 AAC 78.065(e) (*complete Section 3.C*).
- An ATG may also be capable of performing a 0.1 gph leak rate test ("precision test") but the 0.1 gph leak rate test is specifically used to meet annual Tank Tightness Testing (TTT) under 18 AAC 78.065(d) (*see Section 3.D*).
- "ATG" is often used to refer to equipment that can perform Interstitial Monitoring to meet 18 AAC 78.065(h) (tank or piping liquid sensor method) but these devices may not meet 18 AAC 78.065(e) (*complete Section 3.E for interstitial monitoring*).
- Continuous Statistical Leak Detection (**CSLD**) uses the ATG release detection method under 18 AAC 78.065(e) where it continuously performs the 0.2 gph leak rate testing (*complete Section 3.C*).
- Statistical Inventory Reconciliation (SIR) meets 18 AAC 78.065(i); a third-party vendor is used to perform the statistical evaluation each month, and the vendor's protocol must include all data requirements of Inventory Control, 18 AAC 78.065(b). Continuous In-Tank Leak Detection (**CITLD**) or Continual Reconciliation System, is also an **SIR** method (*complete Section 3.B*).
- All release detection equipment and methods must be third-party certified as listed under the National Work Group on Leak Detection Evaluation (NWGLDE) *List of Leak Detection Evaluations for UST Systems* (18 AAC 78.065(k)).

TANK METHOD	Indicate primary (P) <u>and</u> secondary (S) leak detection method for each tank				Use this section to inspect details of leak detection method:
	TANK#	TANK#	TANK#	TANK#	
Inventory Control (18 AAC 78.065(b))					<i>3.A. with 3.D & 3.G.4.d (pipe)</i>
Statistical Inventory Reconciliation (78.065(i))					<i>3.B.</i>
Automatic Tank Gauge (78.065(e))					<i>3.C.</i>
Tank Tightness Testing (78.065(d))					<i>3.D.</i>
Interstitial Monitoring (78.065(h))					<i>3.E.</i>
Manual Tank Gauging or other (78.065(j))					<i>CONTACT ADEC UST UNIT</i>

PIPE METHOD <small>FILL OUT FOR EACH SEPARATE PIPE RUN</small>	Indicate primary (P) method <u>and</u> secondary (S) leak detection method for each pipe run				Use this section for details of each method:
	PIPE#	PIPE#	PIPE#	PIPE#	
<i>Pressurized Piping Only</i> [Stand-alone sump sensors do not meet release detection per 18 AAC 78.070(b)]					
Automatic line leak detector (ALLD, 3 gph) <i>and</i> double-wall pipe <i>with</i> liquid sump sensor					<i>3.F. and 3.E.</i>
ALLD (3 gph) <i>and</i> double-wall pipe with visual (<i>manual log</i>) Interstitial Monitoring					<i>3.F. and 3.E.</i>
ALLD (3 gph) with 0.2 gph leak rate test at least once each 30 days, <i>single or double wall</i>					<i>3.F.</i>
ALLD (3 gph) <i>and</i> <i>annual</i> Line Tightness Test (LTT) 0.1 gph leak rate test, <i>single-wall piping</i>					<i>3.F. and 3.G.4.a</i>
ALLD (3 gph) <i>and</i> <i>annual</i> LTT (0.1 gph leak rate test) on <i>double-wall piping</i>					<i>3.F. and 3.G.4.b</i>
<i>Non-Pressurized (Suction) Piping Only</i>					
Interstitial Monitoring, electronic or manual					<i>3.E.</i>
LTT, 0.1 gph leak rate test every three years					<i>3.G.4.c and 3.H.</i>
Must <u>Verify</u> Type of Suction: <i>SAFE/UNSAFE</i>					<i>3.H.</i>

Inspector's Initials _____
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Owner/Operator's Initials: _____
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NOTICE: INVENTORY CONTROL OR MANUAL TANK GAUGING OF UST SYSTEMS OLDER THAN 10 YEARS

- Inventory Control and Manual Tank Gauging were intended as a temporary method until the UST system could be upgraded to a third-party certified method (18 AAC 78.065(d), (e), (h) or (i)) as listed by the National Work Group on Leak Detection Evaluations (NWGLDE), or another release detection method approved by the department (78.065(f)).
- Inventory Control, and Manual Tank Gauging, for tanks 1,001 to 2,000 gallons, must always be used in conjunction with **Tank Tightness Testing** (78.065(d)) done at five and ten years after installation. **If the UST system was installed more than ten years ago, it is not eligible to use the Inventory Control or Manual Tank Gauging Methods.**
- Inventory Control is not approved as a **pipng** release detection method; the UST system piping must have automatic line leak detection, line tightness testing, or interstitial monitoring (18 AAC 78.070).

SECTION 3.A. INVENTORY CONTROL (data collection is hand-logged or by an automated point-of-sale system)

Operating procedures and recordkeeping must follow exactly the method outlined in 18 AAC 78.065(b). Manual Tank Gauging is allowed <u>only</u> for tanks of 1,000 gallons or less; operating procedure and recordkeeping must be done <u>exactly</u> as 18 AAC 78.065(c)(1) and Table A.		TANK #	TANK #	TANK #	TANK #
1	If UST system was installed prior to April 2007 then Inventory Control <i>is not allowed</i> . Must use a method from 18 AAC 78.065(d), (e), (h) or (i).	DATE TANK INSTALLED	DATE TANK INSTALLED	DATE TANK INSTALLED	DATE TANK INSTALLED
2a	Date of Last Tank Tightness Test (TTT): <i>ATTACH COPY OF SIGNED TTT</i>	TTT DATE	TTT DATE	TTT DATE	TTT DATE
2b	Testing performed by licensed UST worker certified in TTT LICENSE # <i>NAME:</i>				
2c	TTT method is third-party certified as a <u>0.1 gph leak rate test</u> on the <i>NWGLDE</i> list. TTT METHOD NAME:				
3	Inventory is recorded each operating day for inputs, withdrawals, and remaining volumes.				
4	Appropriate calibration chart is used for calculating volume to nearest 1/8 inch.				
5	Gauge stick is marked to determine product level to the nearest 1/8 inch. Length of gauge stick is at least the full diameter of tank.				
6	Stick readings are logged <u>before</u> each delivery.				
7	Stick readings are logged <u>after</u> each delivery.				
8	Each fuel receipt is reconciled with <u>each</u> delivery volume, as measured before/after delivery				
9	Dispensing is metered. Metering is calibrated to state standards. Sales volume is recorded daily.				
10	Monthly water readings are checked to the nearest 1/8 inch and used to calculate inventory balances.				
11	Delivery is through a drop tube installed to within one foot of the tank bottom.				
12	Owner/operator reviews and analyzes the data generated in this method each month.				
13	Reconciliation: total monthly overages [or shortages] are less than 130 gallons plus one percent of tank's flow-through (sales) volume, each month, for the last 12 months.*				
14	Monthly release detection records are available for the last 12 months.* <i>[YES OR NO]</i>				
15	NUMBER OF PASSING MONTHS:				
Inventory Control passes inspection if Blocks 2 through 14 are YES . If Block 15 is less than 12 months , then tank is on LEAK DETECTION PROBATION**					

Note: If the answer to any question is No, please explain below. List any problems noted during inspection. Note corrections on Addendum.

*If No: Inventory Control method: results are recorded daily and reconciled at least once every 30 days; review must show the past 12 months records are passing, without two consecutive months of failed or inconclusive results.

** See Leak Detection Recordkeeping Fact Sheet ☞ Owner or Operator must sign on bottom right of page 12 ☞

DEFICIENCIES: _____

FURTHER RECOMMENDATIONS: _____

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Owner/Operator's Initials: _____
Date: _____

STATISTICAL INVENTORY RECONCILIATION (SIR) method requires a third-party vendor to perform the statistical analysis each 30 days. The vendor's protocol must meet the data collection requirements of the Inventory Control method (18 AAC 78.065(b)), and the third-party statistical analysis must be capable of detecting a 0.2 gallon per hour leak rate from any part of the tank routinely containing fuel (18 AAC 78.065(i)).

SECTION 3.B. STATISTICAL INVENTORY RECONCILIATION (SIR)

Complete this section for SIR, continuous in-tank leak detection SIR (CITLDS) aka Continual Reconciliation System.		TANK #	TANK #	TANK #	TANK #
1	SIR or CITLDS method is on <i>NWGLDE</i> List				
2	SIR or CITLDS METHOD NAME:				
3	Vendor of the third-party statistical analysis:				
4	Monitor Console Make and Model:				
5	Probe model number [each tank]	PROBE MODEL#	PROBE MODEL#	PROBE MODEL#	PROBE MODEL#
6	Verify the monitoring console and probe(s) are <i>NWGLDE</i> third-party certified for SIR or CITLDS.				
7	Owner's manual for this SIR or CITLDS method is available to the operator at the site				
8	Console and probe(s) are calibrated, operated, and maintained per manufacturer's instructions, including frequency of service checks, annual maintenance, and any limitations listed of the <i>NWGLDE</i> certification for SIR or CITLDS				
9	Records indicate correct data was collected to perform leak detection analysis.				
10	Records indicate sufficient amount of data was provided (minimum of 30 days) to perform leak detection analysis.				
11	Inventory is recorded <u>each operating day</u> for inputs, withdrawals, and remaining volumes.				
12	Inventory volume is logged <u>before</u> each delivery.				
13	Inventory volume is logged <u>after</u> each delivery.				
14	Each fuel receipt is reconciled with <u>each tank volume</u> , as measured <u>before/after</u> delivery				
15	Dispensing is metered. Metering is calibrated to state standards. Sales volume is recorded daily.				
16	At least once a month, tank-bottom water level is checked to the nearest 1/8 inch and recorded.				
17	Delivery is through a drop tube installed to within 12 inches of the tank bottom.				
18	Owner/operator <u>reviews</u> the data generated in this method <u>each 30 days</u> .				
19	Vendor verifies reconciliation at least once each 30 days (submits reports to Owner/Operator)				
20	Operator retains a record of the release detection report at least once every 30 days.*				
21	Monthly release detection records are available for the last 12 months. **				
22	NUMBER OF PASSING MONTHS:				
Statistical Inventory Reconciliation passes inspection if Blocks 6 through 21 are YES . If Block 22 is less than 12 months , then tank is on LEAK DETECTION PROBATION**					

Note: If the answer to any question is No, please explain below. List any problems noted during inspection. Note corrections on Addendum.

*SIR results are recorded each operating day and reconciled once every 30 days (through third-party vendor, review must show the past 12 months records are passing, without two consecutive months of failed or inconclusive results.

** If No: See Leak Detection Recordkeeping Fact Sheet ☞ Owner or Operator must sign on bottom right of page 12 ☞

DEFICIENCIES: _____

FURTHER RECOMMENDATIONS: _____

SECTION 3.C. AUTOMATIC TANK GAUGING [0.2 GPH LEAK RATE TEST OF TANK]

Complete this section for an Automatic Tank Gauge (ATG) and Continuous Statistical Leak Detection (CSLD)		TANK #	TANK #	TANK #	TANK #
1	ATG Console Make and Model:				
2	Probe Type and Model Number [each tank]				
3	Frequency: How often does ATG perform test? [D]Daily [W]Weekly [M]Monthly [CSLD]Continuously				
4	Owner's manual for console and probe(s) is available to the operator at the site.				
5	Console is functioning. Verify the ATG and probes are NWGLDE third-party certified.				
6	Verify probe is functioning. [EACH TANK]				
7	If ATG is programmed as CSLD , verify it meets minimum performance standards of the NWGLDE third-party certification. Operating Mode is set at _____ percent.				
8	Diameter of tank is _____ inches. Tank is filled to sufficient capacity _____ (inches or percent) and tests run for proper duration of time _____ (hours) in accordance with NWGLDE certification.				
9	Verify ATG and probe(s) are programmed, calibrated, operated, and maintained per manufacturer's instructions (e.g., frequency of service checks, etc.) including limitations listed in the NWGLDE third-party certification.				
10	Verify the ATG is programmed for sufficient wait time after delivery, and quiet time after dispensing, before the 0.2 gph leak rate test is run; per NWGLDE third-party certification.				
11	Operator retains a record of the release detection test at least once every 30 days.*				
12	Review of the last 12 months of leak detection records show no evidence of a release.**				
13	NUMBER OF PASSING MONTHS:				
ATG passes inspection if blocks 4 through 12 are all YES . **If Block 13 is less than 12 months, then put tank on LEAK DETECTION PROBATION Owner or Operator must sign on bottom right of page 12					

If the answer to any question is **No**, please explain below. List problems noted during inspection. Note corrections on the Addendum.

*ATG method must recorded at least once every 30 days (18 AAC 78.065(a)); the past 12 months records must be retained for the UST inspector's review, and must be passing records without two consecutive months of failed, invalid, inconclusive, or missing results (18 AAC 78.200(a)(3)).

**If two consecutive months records, of the past 12 months, are missing, failed, invalid or inconclusive, it must be reported to the ADEC UST office when the owner/operator first has knowledge (18 AAC 78.200(a)(3)). See the Leak Detection Probation Fact Sheet

DEFICIENCIES: _____

FURTHER RECOMMENDATIONS: _____

SECTION 3.D. TANK TIGHTNESS TESTING (TTT) [0.1 GPH LEAK RATE TEST OF TANK]

Complete this section if the tank requires tightness test; must be performed by licensed UST worker certified in TTT.		TANK #	TANK#	TANK #	TANK#
1	Name and License # of UST worker who performed TTT:	ATTACH COPY OF TTT FOR EACH TANK TESTED			
2	Test method is third-party certified on NWGLDE as 0.1gph leak rate tightness test. METHOD NAME:				
4	Verify TTT protocol meets third-party certification				
Tank Tightness Testing [PASS/FAIL]					

DEFICIENCIES: _____

FURTHER RECOMMENDATIONS: _____

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Owner/Operator's Initials: _____
Date: _____

- APPLICABLE
- NOT APPLICABLE

SECTION 3.E. INTERSTITIAL MONITORING (TANK AND PIPING)

Complete this section for Interstitial Monitoring methods. ☞ Alarm reports <i>are not accepted</i> as stand-alone records. ☜		TANK#	PIPE #	TANK #	PIPE #	TANK #	PIPE #	TANK #	PIPE #
MANUAL SYSTEM ONLY									
1	Interstitial Space is filled with <i>Liquid (Brine) or Air (Dry)</i>								
2	Access to the tank interstitial riser or the piping sump allows monitoring in the appropriate location and position.*								
3	Operator maintains a written log each 30 days.								
4	Monthly log shows no evidence of release. **								
4a	Evidence of liquid is in piping sump or air-filled tank interstitial space.								
4b	Evidence of loss or gain of fluid in a brine-filled interstitial space.								
5	Visual inspection of piping sump, tank interstitial space, or secondary containment indicates no damage, gaps, leaks or holes.								
6	Operation of <i>partial-vacuum</i> or <i>over-pressure system</i> is in accordance with manufacturer's instructions and within design specifications.								
ELECTRONIC SYSTEM ONLY									
7	Interstitial Space is filled with <i>Liquid (Brine) or Air (Dry)</i>								
8	Type of interstitial sensor (i.e., Liquid, Discriminating, or Pressure)								
9	Console <i>make and model</i>								
10	Sensor <i>make and model</i>								
11	Console and sensor are on the <i>NWGLDE</i> list. Interstitial Monitoring components are calibrated, operated, and maintained per manufacturer's instructions (e.g., frequency of service checks, etc.) including limitations listed on the <i>NWGLDE</i> third-party certification.								
12	Verify console is set up correctly and functioning.								
13	Verify interstitial sensor is visually inspected, functionally tested, and confirmed operational. <i>[This is an annual requirement.]</i>	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
14	Verify sensor(s) monitors the interstitial space in the appropriate location and position*								
15	Operator retains a release detection monitoring record at least once each 30 days. <i>[YES OR NO]</i>								
SUMMARY									
16	Monthly release detection records are available for the last 12 months** <i>[YES OR NO]</i>								
17	NUMBER OF PASSING MONTHS:								
Interstitial Monitoring passes inspection if Blocks 2-6, and 16 are YES for Manual, OR Blocks 11-16 are YES for Electronic . If Block 17 is less than 12 months , then put the tank and/or piping on LEAK DETECTION PROBATION**									

Note: If the answer to any question is **NO**, please explain below. List any problems noted during inspection. Note corrections on **Addendum**.

*Interstitial Monitoring sensor is placed at the lowest point of secondary containment for air-filled spaces, or at the highest point of secondary containment for brine-filled. Sensors are positioned so that other equipment will not interfere with its proper operation. See manufacture specifications and *NWGLDE* list of limitations for "continual-partial vacuum" or "over-pressure system" interstitial monitoring.

**Interstitial Monitoring must show 12 months passing with no more than two consecutive "inconclusive" or "fail" records.

** See *Leak Detection Recordkeeping Fact Sheet* ☞ **Owner or Operator** must sign on bottom right of page 12 ☜

DEFICIENCIES: _____

FURTHER RECOMMENDATIONS: _____

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SECTION 3.F. AUTOMATIC LINE LEAK DETECTORS (PRESSURIZED PIPING)

Complete for all automatic line leak detectors [ALLD]. The functional tester must hold a <i>current certification</i> by the manufacturer on the equipment and method used to test.		PIPE #	PIPE #	PIPE #	PIPE #
1	Mechanical (M) or Electronic (E)				
2	ALLD equipment Make and Model:				
3	Automatic Shut-Off Device (SO) Restrictor (R)				
4	Verify ALLD has <i>NWGLDE</i> 3rd-party certification				
5	Verify performance and operation:				
5a	· ALLD operates at 3.0 gph @ 10 psi (required)				
5b	· ALLD operates at 0.2 gph @ 10 psi (monthly)				
5c	· ALLD operates at 0.1 gph @ 10 psi (annual)				
6	Device is calibrated, operated, and <i>annually</i> maintained per manufacturer's instructions (e.g., frequency of service checks, etc.) including limitations listed on the <i>NWGLDE</i> third-party certification.				
7	Verify the entire piping system is covered by the ALLD (e.g., manifolded piping, dual STP, etc.). If no, explain below, under Deficiencies. [YES OR NO]				
8	Single-wall piping: line-tightness test performed within the last 12 months (<i>annual</i> 0.1 gph leak rate test) by a licensed Tightness Tester or done by the ATG [YES OR NO] ATTACH A COPY OF THE LLT TESTS OR ATG RECORDS	DATE	DATE	DATE	DATE
9	All ALLDs must have an annual functional test (not a self-test). This is to assure it is properly installed, not tampered with, or bypassed [<i>Line Functional Tester must be certified by the manufacturer of the equipment.</i>] ATTACH A COPY OF THE 2015 AND 2016 TESTS	Dates passed:	Dates passed:	Dates passed:	Dates passed:
		2015	2015	2015	2015
		2016	2016	2016	2016
10	ALLD passed an annual functional test during this inspection or within the last 12 months [YES OR NO] ATTACH A CURRENT COPY OF FUNCTIONAL TESTS	2017	2017	2017	2017
11	ALLD functional test method and equipment used:				
12	ALLD Tester's Certification #: _____ Name: _____				
13	Self-testing electronic ALLD shows the last record of a passing 3.0 gph @ 10 psi test result, for each line, which was done within the last 72 hours. [YES OR NO] ATTACH A COPY OF THE TESTS				
14	Operator retains a record of the monthly line leak detection reports. [YES OR NO]				
15	Records are available for the last 12 months. Review shows 12 months passing records* [YES OR NO]				
16	NUMBER OF PASSING MONTHS:				
Automatic Line Leak Detection passes inspection if: Blocks 4-10 and 14-15 are YES . If ALLD functional tests were not completed in 2015 and 2016 (Block 9) then the inspection fails. If Block 16 is less than 12 months, then put the UST on LEAK DETECTION PROBATION**					

Note: If the answer to any question is **No**, please explain below. List problems noted during inspection. Note corrections on Addendum.

*Line Leak Detection results are recorded at least once every 30 days; review must show the past 12 months records are passing, without two consecutive months of *failed* or *inconclusive* results.

** If **NO**: See *Leak Detection Recordkeeping Fact Sheet* Owner or Operator must sign on bottom right of page 12

DEFICIENCIES: _____

FURTHER RECOMMENDATIONS: _____

APPLICABLE

NOT APPLICABLE

SECTION 3.G. LINE TIGHTNESS TESTING (0.1 GPH LEAK RATE TEST OF PIPING)

Complete for double-wall pressurized piping (18 AAC 78.070(d)), or for single-wall pressurized piping, or unsafe suction (78.070(c))		PIPE #	PIPE #	PIPE #	PIPE #
1	Line Tightness test performed by licensed UST worker certified in TTT LICENSE # NAME:				
2	Test method is third-party certified on the NWGLDE list as a 0.1 gph leak rate tightness test. METHOD NAME:				
3	Current year's annual line tightness-test result is available; Shows no evidence of a potential leak. ATTACH A COPY				
4	Line Tightness testing is conducted on specified schedule:				
4a	• Single-wall pressurized piping, <i>annual 0.1 gph leak rate test</i>				
4b	• Piping without an ALLD, or without interstitial monitoring (liquid sump sensor) must have an <i>annual 0.1 gph test</i>				
4c	• Unsafe suction piping, without monthly interstitial monitoring, <i>0.1 gph leak rate test every third year</i>				
4d	• Inventory Control [Section 3.A] plus TTT (18 AAC 78.065(b)) is not an allowed release detection method for piping. UST system must use automatic line leak detection, line tightness testing, or interstitial monitoring for the piping.				
Line Tightness Testing passes inspection , if Blocks 2 and 3, and 4a, 4b, or 4c, are all YES . For Block 4d, use <i>Sections 3.E, Section 3.F</i> or perform required line tightness tests. ATTACH COPY OF LINE TIGHTNESS TESTS					

Note: If the answer to any question is **NO**, please explain below. List any problems noted during inspection. Note corrections on Addendum.

DEFICIENCIES: _____

FURTHER RECOMMENDATIONS: _____

SECTION 3.H. SUCTION PIPING [VERIFY RELEASE DETECTION METHOD FOR SUCTION PIPING]

SAFE SUCTION		PIPE #	PIPE #	PIPE #	PIPE #
1	Piping is installed correctly. Piping slopes down to the tank. Any bend does not arc tighter than 90°. Piping operates under atmospheric pressure or less.				
2	Only <u>one</u> check valve is installed.				
3	Check valve is installed directly at the dispensing pump.				
Verify piping meets Blocks 1, 2 and 3 for <i>Safe Suction</i> [PASS OR FAIL]					
UNSAFE SUCTION					
If any of Blocks 1, 2 or 3 is NO , the piping is <i>Unsafe Suction</i> and requires a line-tightness test (LTT) every three years, <u>or</u> operator must use an alternate method, such as Interstitial Monitoring (18 AAC 78.065(h)) using a liquid sump sensor, or visual inspection with a manual log. Interstitial Monitoring must be performed at least once each 30 days, and the monthly records retained.					
4	Line-Tightness Test each three years [Complete SECTION 3.G.] [PASS OR FAIL]				
5	*Interstitial Monitoring (liquid sump sensor) [Complete SECTION 3.E.] [PASS OR FAIL]				
6	* Operator retains liquid sump sensor record each month				
7	** The last 12 months of records are available for review.				
8	NUMBER OF PASSING MONTHS:				
Verify piping is <i>Unsafe Suction</i> . Piping passes inspection if Block 4 or 5 is PASS , and Blocks 6 and 7 are YES . If Block 8 is less than 12 months , put the piping on LEAK DETECTION PROBATION**					

List any discrepancies noted during inspection. Corrections and/or repairs must be listed in **SECTION 8 - ADDENDUM**.

*Release detection method must be monitored and recorded at least once each 30 days. Inspection review must show passing records for the last 12 months; if there are two consecutive months of *failed* or *inconclusive* results, it must be reported (18 AAC 78.200(a)(3)).

** If **NO**: See *Leak Detection Recordkeeping Fact Sheet* ☞ **Owner or Operator** must sign on bottom right of page 12 ☞

DEFICIENCIES: _____

FURTHER RECOMMENDATIONS: _____

Inspector's Initials _____

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Owner/Operator's Initials: _____

Date _____

Date: _____

SECTION 4: SPILL AND OVERFILL PREVENTION

SECTION 4.A. SPILL PREVENTION DEVICE

		TANK #	TANK #	TANK #	TANK #
1	Fill port is equipped with spill containment that meets regulatory and industry standards				
2	Spill bucket is clean and free of debris and water				
3	Spill bucket is free of cracks, gaps or holes				
4	Fill riser has a drop tube in good condition, free of abnormalities (e.g., rusty, bent, cracks, holes) especially at connections to tank and/or spill bucket				
5	Spill device is not required. <i>If no more than 25 gallons at one time is transferred in, then a catchment basin is not required as specified in 18 AAC 78.040(a).</i>				
Verify Spill equipment passes inspection. Blocks 1 through 4 are YES (or Block 5 is YES).					

*Note: If any answer to Blocks 1 through 4 is **NO**, explain below. List any problems noted during inspection. Note corrections on Addendum.*

SECTION 4.B. OVERFILL DEVICE

		TANK #	TANK #	TANK #	TANK #
Automatic shutoff must be set to operate when the fuel delivery reaches 95 percent full. High Level Alarm must be set to alert at 90 percent full. Ball Float Valve must be set when delivery reaches 90 percent full.					
1	Overfill device present (<i>list all</i>): Automatic Shutoff (AS), Ball Float Valve (BFV), High Level Alarm (HLA)				
2	Indicate delivery method (gravity drop or pressurized flow)				
3	Owner/operator ensures releases due to spilling or overfilling do not occur, for example, product is measured prior to each delivery to ensure enough room in tank for delivery. All fuel deliveries are monitored by operator <i>and</i> distributor.				
4	Verify the overfill device is present and in good condition.				
5	Verify the overfill device is functioning and operating.				
AUTOMATIC SHUT-OFF					
6	Verify the drop tube is unobstructed (anything that would render the shut-off device ineffective) and not damaged.				
7	Verify the AS device is functional and is set to operate when delivery reaches 95 percent of tank volume.				
BALL FLOAT VALVE					
8	Verify the ball float valve (BFV) is compatible with UST system configuration, product, delivery, and use.*** <i>A failed BFV may not be upgraded or repaired; it must be replaced with AS or HLA.</i>				
EXTERNAL HIGH LEVEL ALARM					
9	Verify annunciator is functioning and is audible/visible to the fuel transfer operator at delivery point.				
10	Verify monitor and probe are functioning and operate to alert when delivery reaches 90 percent of tank volume.				
OVERFILL DEVICE NOT REQUIRED					
10	Tank receives less than 25 gallons of liquid per delivery (is not required to have overfill prevention as specified in 18 AAC 78.040).				
Overfill device passes inspection. Blocks 3 through 9 (as applicable) are YES (or Block 10, overfill device is not required).					

*Note: If the answer to any question is **NO**, explain below. List any problems noted during inspection. Note corrections on Addendum.*

*** Ball float valves needing repair/upgrade must be replaced with an AS or HLA to pass inspection, or under the following conditions:

Title 18 AAC 78.040(e) If a UST system has one or more of the following, the owner or operator shall not use a ball float valve on that system: (1) a tank that receives a pumped (pressurized) delivery; (2) suction piping with air eliminators; (3) remote fill pipes and gauge openings; (4) an emergency generator. Vent Restrictors are no longer permitted.

DEFICIENCIES: _____

FURTHER RECOMMENDATIONS: _____

Inspector's Initials _____
Date _____

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Owner/Operator's Initials: _____
Date: _____

SECTION 5: CORROSION PROTECTION

Complete the Cathodic Protection Survey (Galvanic or Impressed Current as applicable).

	All UST components, including tank, piping, fittings, flex-connectors, etc., must be isolated from soil or cathodically protected.	TANK #	TANK #	TANK #	TANK #
<input type="checkbox"/> GALVANIC CATHODIC PROTECTION (TANK AND PIPING) COMPLETE SURVEY FORM					
1	Tank tested in accordance with NACE Standard RP-0285. (Attach ADEC Galvanic Cathodic Protection Survey)				
2	Piping tested in accordance with NACE Standard RP-0285				
3	Record of last two cathodic protection tests on file with Owner or Operator. CP tests performed by licensed UST worker: <i>LICENSE# NAME:</i>				
4	CP system tested/inspected within six months of upgrade.				
Galvanic CP passes inspection if Blocks 1-2 are PASS .					
<input type="checkbox"/> IMPRESSED CURRENT CATHODIC PROTECTION (TANK AND PIPING) COMPLETE SURVEY FORM					
5	System has power and it is turned on.				
6	60-day log is present and properly completed*				
7	Tank tested in accordance with NACE Standard RP-0285. (Attach Impressed Current CP Form with the Site Sketch)				
8	Pipe tested in accordance with NACE Standard RP-0285.				
9	Record of last two cathodic protection tests on file with Owner or Operator. Tests performed by licensed UST work: <i>LICENSE# NAME:</i>				
10	CP system tested/inspected within six months of upgrade.				
Impressed Current CP passes inspection if Blocks 5-8 are Yes .					
* 60-DAY RECTIFIER LOG IS FOUND IN THE ADEC GUIDELINE FOR THE EVALUATION OF CATHODIC PROTECTION SYSTEMS.					

DEFICIENCIES: _____

FURTHER RECOMMENDATIONS: _____

SECTION 6: GENERAL COMMENTS

UST inspectors are required to report unusual operating conditions on tanks, piping and all equipment components to ADEC within ten days of the inspection (18 AAC 78.017(k)(3)).

OPERATING CONDITIONS					
1	Were any of the following conditions observed in flexible piping: swelling, elongation, kinking, wrinkling, blistering, delaminating, softness, mold growth, or other abnormalities? Attach digital photographs and describe.				
PHOTOGRAPHIC RECORD					
2	Include a digital record of each tank's components: piping, sumps, manual tank gauge access, interstitial access, fill riser, leak detection, overflow device, spill bucket, vent, compliance tag, ATG or tank monitor, etc., and a site overview.				
SPILL REPORTING					
3	Report all known or potential spills or leaks to the UST office: 907-269-7679, 907-269-3055 fax: 269-7687				

ADEC Spill Response:

Area	Phone	FAX
Central (Anchorage)	269-3063	269-7648
Northern (Fairbanks)	451-2121	451-2362
Southeast (Juneau)	465-5340	465-5245

<http://www.dec.state.ak.us/spar/spillreport.htm>

1-800-478-9300 after business hours

Inspector's Initials _____
Date _____

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Owner/Operator's Initials: _____
Date: _____

SECTION 7: CERTIFICATION

7.A. COMPLETE THE FOLLOWING:	TANK #	TANK #	TANK #	TANK #
Use these codes: P = Pass Inspection, F = Fail Inspection, NA = Not Applicable.				
Release Detection (Tank only)				
Release Detection (Piping only)				
Spill Device (Tank only)				
Overfill Device (Tank only)				
Corrosion Protection (Tank only)				
Corrosion Protection (Piping only)				
Tank Release Detection Record Keeping enter number of months with passing records **				
Piping Release Detection Record Keeping enter number of months with passing records **				
Passes Inspection (Pass/Fail only)				

The department's Underground Storage Tank database will be updated with information listed in this UST Operations Inspection Report or if any changes are noted on a Facility Tank Summary printout.

<p>I, the Certified Inspector, have performed this UST Inspection and believe the contents of this report to be true and accurate at the time of inspection. I also have no significant financial interest with this UST facility.</p> <p>Facility # _____</p> <p>Print Name: _____</p> <p>Signature: _____</p> <p>E-Mail: _____</p> <p>Phone: _____</p> <p>Inspector ID #: _____ Date: _____</p>	<p>I, the Owner/Operator (<i>circle one</i>), have read this Inspection Report and have been told the condition of my UST facility, including all deficiencies, corrections and recommendations.</p> <p style="text-align: center;"><u>√All applicable pages are initialed and included.</u></p> <p>Print Name: _____</p> <p>Signature: _____</p> <p>E-Mail: _____</p> <p>Phone: _____ Date: _____</p>
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7.B. LEAK DETECTION PROBATION

****If less than 12 months of passing records, the tank and/or piping is on *LEAK DETECTION PROBATION*. The Owner/Operator signs the *Leak Detection Probation Agreement* (below) with an inspector. ** Review *Leak Detection Recordkeeping Fact Sheet*.**

Leak Detection Probation Agreement:

I have been hired to perform leak detection probation inspector duties listed on the *Leak Detection Record Keeping Fact Sheet* as applicable.

Probation Due Date: _____

Initial/Date: _____

If different Certified Inspector (than above) identify:

Inspector Name/ID #: _____

Signature/Date: _____

Leak Detection Probation Agreement:

I agree to comply with leak detection monitoring as described on the *Leak Detection Record Keeping Fact Sheet* and as applicable to this facility.

Signature: _____

Date: _____

7.C. SUBMIT THE UST OPERATIONS INSPECTION REPORT FOR REVIEW

Your UST Inspector must submit the ***original*** ***UST OPERATIONS INSPECTION REPORT***, initialed and signed, within 30 days of the inspection, but ***no later than*** September 30th, of the inspection year.

Mail to: ADEC Underground Storage Tanks
Attn: Torri Owens, UST Technician
555 Cordova Street
Anchorage, Alaska 99501-2617

email: victoria.owens@alaska.gov fax: 907-269-7687

The report for a failed inspection must be submitted within ten days of the inspection (18 AAC 78.017(k)(3)).

Submit to: CherylPaige@alaska.gov fax: 907-269-7687

Inspector's Initials _____
Date _____

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Owner/Operator's Initials: _____
Date: _____

SECTION 8: ADDENDUM

FACILITY #

FACILITY NAME:

Use this section to note any deficiency corrections or repairs that were made *after the initial inspection*. The UST third-party *Operations Inspection* should be a 'snapshot' completed prior to any repairs or adjustments that would affect whether or not a UST would *pass* or *fail*. List each corrected item separately (but tanks can be listed together). If you have any questions, please call the UST office at ADEC, at **907-269-7679, 907-269-3052 or 907-269-3055**. Use additional copies of this page if necessary. Email to CHERYL.PAIGE@ALASKA.GOV or VICTORIA.OWENS@ALASKA.GOV or fax to **907-269-7687**.

Item 1.

Date of Work: _____ Tank *and/or* Pipe #: _____ is now: **PASS** OR **FAIL** the Inspection

Description of Repair or Deficiency Correction: _____

UST Worker Name: _____ Alaska UST Worker License # _____

UST Worker Signature: _____ Date _____

Item 2.

Date of Work: _____ Tank *and/or* Pipe #: _____ is now: **PASS** OR **FAIL** the Inspection

Description of Repair or Deficiency Correction: _____

UST Worker Name: _____ Alaska UST Worker License # _____

UST Worker Signature: _____ Date _____

Item 3.

Date of Work: _____ Tank *and/or* Pipe #: _____ is now: **PASS** OR **FAIL** the Inspection

Description of Repair or Deficiency Correction: _____

UST Worker Name: _____ Alaska UST Worker License # _____

UST Worker Signature: _____ Date _____

Item 4.

Date of Work: _____ Tank *and/or* Pipe #: _____ is now: **PASS** OR **FAIL** the Inspection

Description of Repair or Deficiency Correction: _____

UST Worker Name: _____ Alaska UST Worker License # _____

UST Worker Signature: _____ Date _____

Please send the original *Addendum* to ADEC *no later than 30 days* after the UST work to correct the deficiency is completed to:

ADEC Underground Storage Tanks
555 Cordova Street
Anchorage, Alaska 99501-2617

**QUESTIONS?
Contact the UST office:**

Larry.Brinkerhoff@alaska.gov

907-269-3055 fax: 907-269-7687

Cheryl.Paige@alaska.gov

907-269-7679

Victoria.Owens@alaska.gov

907-269-3052

Internet: <http://www.dec.state.ak.us/spar/ipp/tanks.htm>

Inspector's Initials _____
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Owner/Operator's Initials: _____
Date: _____