



ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
 UNDERGROUND STORAGE TANKS  
**Operations Inspection Report**  
**2018**



**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**

<b>FACILITY NAME:</b>	<b>OWNER NAME:</b>
Physical Address:	Mailing Address:
City:	City, State, Zip:
Phone:	Phone: <span style="float: right;">Fax:</span>
UST CLASS A OR B OPERATOR ON SITE DURING INSPECTION:	<b>MAILING ADDRESS FOR COMPLIANCE TAG DECALS:</b>
Name:	Name:
Contact Phone:	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 on hand:  Yes  No *If "No," Explain:*  
 Class C Operator Certificate(s) are current (have annual refresher):  Yes  No

Use the ADEC Tank number on the first line. Inspect each compartment as if it were an individual tank; example: label each as "IA" and "IB."  
 \***Double-wall** piping refers to factory-made material, designed with an interstitial space. Piping in **\*\*Secondary Containment** means the outer wall is swage-locked (or welded) on each end to create a fluid-tight space, which can be used for interstitial monitoring (must verify liquid-tightness). **\*\*\*Single-wall pipe**, whether or not it is in chase, must use line-tightness testing. Note any system changes on the facility summary.

ADEC TANK NUMBER:	TANK #	TANK #	TANK #	TANK #
COMPLIANCE TAG NUMBER:	TAG #	TAG #	TAG #	TAG #
C-TAG EXPIRATION YEAR:				
Owner Tank ID <i>(if different from ADEC#)</i>	#	#	#	#
Status <i>(Active or Taken Out-of-Service)</i>				
Capacity <i>(Volume in Gallons)</i>				
Product <i>(specify type of petroleum)</i>				
Tank supplies a Power Generator				
Tank Construction Material				
Double-Wall Tank <i>(Yes or No)</i>				
Compartment Tank <i>(Yes or No)</i>				
Piping Construction Material				
Piping Type <i>(Suction or Pressurized)</i>				
- Manufactured as Double-Wall Piping*				
- Piping with Secondary Containment**				
- Single-Wall Piping***				
- Multiple Runs per Tank? sketch all runs, p. 2				

<b>QUESTIONS?</b>	PHONE: 907-269-7679 fax: 907-269-7687	EMAIL: <a href="mailto:CHERYL.PAIGE@ALASKA.GOV">CHERYL.PAIGE@ALASKA.GOV</a> <a href="http://dec.alaska.gov/spar/csp/tanks.htm">http://dec.alaska.gov/spar/csp/tanks.htm</a>
The UST Inspector must submit this report to the Owner/Operator for review and signature; Owner or Operator must initial each page, and sign page 12. Inspector must submit the signed <b>ORIGINAL REPORT</b> <i>no later than 30 days</i> of the inspection, via: <b>ADEC SPAR CS Underground Storage Tanks 555 Cordova Street Anchorage, AK 99501-2617</b>		

**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, ex: T#1A, T#1B
- (P) Product piping
- (PS) Piping or STP sumps
- (ATG) Automatic Tank Gauge or Monitor
- (SP) Spill Buckets
- (OP) Overfill Alarm
- (IM) Tank Interstitial-Monitoring Access
- (MG) Tank Manual-Gauging Access
- (RCT) Rectifier
- (AN) Cathodic Protection Anode(s)
- (R<sub>1</sub>, R<sub>2</sub>, etc.) Reference-cell locations for CP
- (T<sub>1</sub>, T<sub>2</sub>, P<sub>1</sub>, P<sub>2</sub>, etc.) Structure CP Contact Points
- (V) Vent(s)
- (D) Dispenser(s)
- Indicate ↑ North Arrow
- Add GPS Coordinates ***OR***
- Add Street(s), Building, or significant landmarks

Inspector's Initials \_\_\_\_\_  
Date \_\_\_\_\_

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Owner/Operator's Initials: \_\_\_\_\_  
Date: \_\_\_\_\_

## 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," with an *Empty Tank Affidavit* (ADEC Form 18-0503) filed at ADEC. A full inspection required on all components.
- 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)).

<b>STATUS OF TEMPORARILY CLOSED OR TAKEN OUT OF SERVICE (TOS) TANKS</b>	DATE:	TANK #	TANK #	TANK #	TANK #
Tank contains less than one inch of product	[YES OR NO]				
Tank is vented; fill riser, components, and manways are locked/secured					
Site Assessment and Release Investigation Report submitted (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 (up to October 13, 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 a monitor that can perform Interstitial Monitoring to meet 18 AAC 78.065(h) or 78.070(d) (liquid sensor for tank or piping) 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 must be 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)).

<b>TANK METHOD</b>	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))					3.A. with 3.D & 3.G.4.d (pipe)
Statistical Inventory Reconciliation (78.065(i))					3.B.
Automatic Tank Gauge (78.065(e))					3.C.
Tank Tightness Testing (78.065(d))					3.D.
Interstitial Monitoring (78.065(h))					3.E.
Manual Tank Gauging or other (78.065(j))					CONTACT ADEC UST UNIT

<b>PIPE METHOD</b> FILL OUT FOR EACH SEPARATE PIPE RUN	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					3.F. and 3.E.
ALLD (3 gph) <i>and</i> double-wall pipe with visual ( <i>manual log</i> ) Interstitial Monitoring					3.F. and 3.E.
ALLD (3 gph) with 0.2 gph leak rate test at least once each 30 days, <i>single or double wall</i>					3.F.
ALLD (3 gph) <i>and</i> <u>annual</u> Line Tightness Test (LTT) 0.1 gph leak rate test, <i>single-wall piping</i>					3.F. and 3.G.4.a
ALLD (3 gph) <i>and</i> <u>annual</u> LTT, 0.1 gph leak rate test, on <i>double-wall piping</i>					3.F. and 3.G.4.b
<i>Non-Pressurized (Suction) Piping Only</i>					
Interstitial Monitoring, electronic or manual					3.E.
LTT, 0.1 gph leak rate test every three years					3.G.4.c and 3.H.
Must <u>Verify</u> Type of Suction: SAFE/UNSAFE					3.H.

Inspector's Initials \_\_\_\_\_  
Date \_\_\_\_\_

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Owner/Operator's Initials: \_\_\_\_\_  
Date: \_\_\_\_\_

**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 automated throughput-tracking 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 2008 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, <i>LICENSE #</i> <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. <b>TTT METHOD NAME:</b>				
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	<u>Monthly water readings</u> 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 30 days, for the last 12 months.*				
14	Monthly release detection records are available for the last 12 months.* <i>[YES OR NO]</i>				
15	<b>NUMBER OF PASSING MONTHS:</b>				
Inventory Control passes inspection if Blocks 2 through 14 are <b>YES</b> . If Block 15 is less than <b>12 months</b> , then tank is on <b>LEAK DETECTION PROBATION**</b>					

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:** \_\_\_\_\_

Inspector's Initials \_\_\_\_\_  
Date \_\_\_\_\_

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, CITLDS or CRS method is on <i>NWGLDE</i> List				
2	SIR or CITLDS or CRS 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 inspection, within limitations listed in <i>NWGLDE</i> 3 <sup>rd</sup> -party 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 each tank volume, 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 each 30 days.				
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 <b>YES</b> . If Block 22 is less than 12 months, then tank is on <b>LEAK DETECTION PROBATION**</b>					

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 <b>CSLD</b> , 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. <b>ATTACH A COPY OF VERIFICATION RESULTS</b>				
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	<b>NUMBER OF PASSING MONTHS:</b>				
<b>ATG passes inspection</b> if blocks 4 through 12 are all YES. **If Block 13 is less than 12 months, then put tank on <b>LEAK DETECTION PROBATION</b> 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:	<b>ATTACH COPY OF TTT FOR EACH TANK TESTED</b>			
2	Test method is third-party certified on NWGLDE as 0.1gph leak rate tightness test. <b>METHOD NAME:</b>				
4	Verify TTT protocol meets third-party certification				
Tank Tightness Testing [PASS/FAIL]					

**DEFICIENCIES:** \_\_\_\_\_

**FURTHER RECOMMENDATIONS:** \_\_\_\_\_



- 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 #
<b>MANUAL SYSTEM ONLY</b>									
1	Interstitial Space is liquid-filled or dry [BRINE OR AIR]								
2	Operation of <i>partial-vacuum</i> or <i>over-pressure system</i> is in accordance with manufacturer's instructions and within design specifications.								
3	Operator has access to the tank interstitial riser, or the piping sump, to visually and/or manually monitor at the proper location and position.*								
4	Operator maintains a written log each 30 days.								
5	Review 12 months of Log Entries:								
5a	Evidence of liquid is in piping sump, or in tank's air-filled annular space. [IF YES, THEN NOTE CAUSE]								
5b	Evidence of loss or gain of fluid in a brine-filled interstitial space. [IF YES, THEN NOTE CAUSE]								
<b>ELECTRONIC SYSTEM ONLY</b>									
6	Interstitial Space is liquid-filled or dry [BRINE OR AIR]								
7	Console <i>make and model</i>								
8	Sensor <i>make and model</i>								
9	Type of sensor (Liquid, Discriminating, or Pressure)								
10	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.								
11	Verify console is set up correctly and functioning.								
12	Verify sensor(s) monitors the interstitial space in the appropriate location and position*								
13	Verify interstitial sensor is visually inspected, functionally tested, and confirmed operational. [This is an annual requirement.]	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
14	Operator prints "LIQUID STATUS" report each 30 days.								
<b>SUMMARY OF ALL INTERSTITIAL MONITORING</b>									
15	Sump <b>Integrity Test</b> for liquid tightness [YES/NO] <i>ATTACH A COPY OF THE TEST RESULTS</i>		TEST DATE		TEST DATE		TEST DATE		TEST DATE
16	Visual inspection of piping sump, tank interstitial space, or secondary containment indicates no damage, gaps, leaks or holes.								
17	Release detection records are available for each of the last 12 months** [YES OR NO]								
18	Review of the last 12 months of leak detection records shows no evidence of release. **								
19	<b>NUMBER OF PASSING MONTHS:</b>								
Interstitial Monitoring passes inspection if Blocks 3-4 and 15-18 are <b>YES</b> for <i>Manual</i> , <b>OR</b> Blocks 10-18 are <b>YES</b> for <i>Electronic</i> . If Block 19 is <b>less than 12 months</b> , for either method, then put the tank and/or piping on <b>LEAK DETECTION PROBATION</b> **									

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 space, or at the highest point of secondary containment for brine-filled space. Sensors are positioned so that other equipment will not interfere with its proper operation. See manufacturer's 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*; for *Leak Detection Probation*, the **Owner or Operator** must sign on bottom right of page 12 ☜

**DEFICIENCIES:** \_\_\_\_\_

**FURTHER RECOMMENDATIONS:** \_\_\_\_\_

Inspector's Initials \_\_\_\_\_  
Date \_\_\_\_\_

Owner/Operator's Initials: \_\_\_\_\_  
Date: \_\_\_\_\_

- APPLICABLE  
 NOT APPLICABLE

**SECTION 3.F. AUTOMATIC LINE LEAK DETECTORS (REQUIRED ON 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 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 (if electronic ALLD is used to meet 18 AAC 78.070(d)) [COMPLETE BLOCK 16]				
5c	· ALLD operates at 0.1 gph @ 10 psi (annual, 78.070(c))				
6	ALLD 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 run is covered by the ALLD (e.g., manifold or multiple runs, dual STP, etc.). If no, explain below, under Deficiencies. [YES OR NO]				
8	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. ATTACH A COPY OF THE TESTS				
9	Single-wall piping: annual line-tightness test (0.1 gph leak rate test) was performed within the last 12 months by a licensed Tightness Tester, or by electronic ALLD ATTACH A COPY OF LLT TESTS (SEE SECTION 3.G.) OR ATG RECORDS	TEST DATE	TEST DATE	TEST DATE	TEST DATE
10	All ALLDs must have an <b>annual functional test</b> (not a self-test). This is to assure it is properly installed, not tampered with, or bypassed [Line Functional Tester must be certified by the manufacturer of the equipment.] ATTACH A COPY OF THE TWO PRIOR FUNCTIONAL TESTS	TEST DATE:	TEST DATE:	TEST DATE:	TEST DATE:
		2016	2016	2016	2016
		2017	2017	2017	2017
11	ALLD passed an annual functional test <b>during this inspection</b> , or within the last 12 months [YES OR NO] ATTACH A CURRENT COPY OF 2018 FUNCTIONAL TESTS	2018	2018	2018	2018
12	ALLD functional test method and equipment used:				
13	ALLD Tester's Certification #: Name:				
14	Operator retains the records of the ALLD 0.2 gph leak rate tests each 30 days [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:				
<p><b>FAIL</b> if ALLD functional test was not done during the 12 months <b>prior</b> to this inspection; ALLD probation for one year.</p> <p>Pass mechanical ALLD if Blocks 4-11 are <b>YES</b>.  <b>Electronic ALLD:</b> complete Blocks 4-11, for function; if primary piping method is the 0.2 gph leak rate test each 30 days (78.070(d)), then complete <b>Blocks 14-15</b> (electronic ALLD passes if all blocks are <b>YES</b>). If Block 16 is <b>less than 12 months</b>, then put piping on <b>LEAK DETECTION PROBATION**</b></p>					

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

\*Line Leak Detection results are monitored 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:** \_\_\_\_\_

Inspector's Initials \_\_\_\_\_  
Date \_\_\_\_\_

Owner/Operator's Initials: \_\_\_\_\_  
Date: \_\_\_\_\_



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 (LTT) performed by licensed UST worker certified in TTT <i>LICENSE# NAME:</i>				
2	LTT method is third-party certified on the <i>NWGLDE</i> list as a 0.1 gph leak rate tightness test. <i>METHOD NAME:</i>				
3	Current year's annual LTT result is available; Shows no evidence of a potential leak. <b>ATTACH A COPY</b>				
4	LTT is conducted on specified schedule:	<i>TEST DATE:</i>	<i>TEST DATE:</i>	<i>TEST DATE:</i>	<i>TEST DATE:</i>
4a	• Single-wall pressurized piping, <i>annual 0.1 gph leak rate test</i>				
4b	• Piping which was not monitored each 30 days (0.2 gph leak rate test or interstitial sensor) must have an <i>annual 0.1 gph leak rate test</i> , done within the last 12 months				
4c	• Unsafe suction piping, without interstitial monitoring each 30 days, must have a <i>0.1 gph leak rate test</i> every third year				
4d	• Inventory Control [Section 3.A] with TTT (18 AAC 78.065(b)) is <u>not allowed</u> as a release detection method for piping. UST system must use electronic ALLD (0.2 gph leak rate tests), LTT, or interstitial monitoring for the piping.				
Line Tightness Testing passes inspection, if Blocks 2,3, and 4a, 4b, or 4c, are all <b>YES</b> . Block 4d: use <i>Sections 3.E, Section 3.F</i> or perform required LTT. <b>ATTACH COPY OF LINE TIGHTNESS TESTS</b>					

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 <b>No</b> , the piping is <i>Unsafe Suction</i> and requires a line-tightness test (LTT) every three years, <i>or</i> operator must use an alternate method, such as Interstitial Monitoring using a liquid sump sensor, or maintain a manual log of visual inspection. Interstitial Monitoring must be performed at least once each 30 days, and the monthly records retained (18 AAC 78.070(c) or 78.070(d)).					
4	Line-Tightness Test each three years [Complete <b>SECTION 3.G.</b> ] <b>[PASS OR FAIL]</b>				
5	Interstitial Monitoring (liquid sump sensor) [Complete <b>SECTION 3.E.</b> ] <b>[PASS OR FAIL]</b>				
6	Operator retains liquid sump sensor record each month*				
7	The last 12 months of records are available for review. **				
8	<b>NUMBER OF PASSING MONTHS:</b>				
Verify piping is <i>Unsafe Suction</i> . Piping passes inspection if Block 4 is Pass, or if Block 5 is Pass, including <b>YES</b> for Blocks 6 and 7. If Block 8 is <b>less than 12 months</b> , put on <b>LEAK DETECTION PROBATION**</b>					

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 EQUIPMENT

		TANK #	TANK #	TANK #	TANK #
1	Fill port is equipped with spill containment that meets regulatory <i>and</i> industry standards				
2	Spill bucket is clean, and free of debris and water				
3	Spill bucket integrity: free of cracks, holes, damage				
4	Spill Bucket <b>Integrity Test</b> for liquid tightness <i>ATTACH A COPY OF THE TEST RESULTS</i>	<i>TEST DATE</i>	<i>TEST DATE</i>	<i>TEST DATE</i>	<i>TEST DATE</i>
5	Fill riser has a drop tube in good condition, free of corrosion or damage, especially at connections				
6	Spill device is not required ( <i>18 AAC 78.040(a)</i> )				
Verify Spill Prevention equipment passes inspection. Blocks 1 through 5 are <b>YES</b> (or Block 6 is <b>YES</b> )					

*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 activate when fuel delivery reaches 95 percent full. High Level Alarm must be set to alert at 90 percent full. Ball Float Valve must restrict flow when delivery reaches 90 percent.					
1	Overfill device ( <i>list all that are present</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 spill or overfill do not occur. Ensures product is measured prior to each delivery with enough room in tank for fuel transfer. All fuel deliveries are monitored by operator <i>and</i> distributor.				
4	Remove, inspect and verify the overfill components are present, and in good condition, at least once each three years.	<i>DATE</i>	<i>DATE</i>	<i>DATE</i>	<i>DATE</i>
5	Verify the overfill device is operational and properly activates, at least once each three years. <i>ATTACH COPY OF TEST RESULTS</i>	<i>TEST DATE</i>	<i>TEST DATE</i>	<i>TEST DATE</i>	<i>TEST DATE</i>
<b>AUTOMATIC SHUTOFF VALVE</b>					
6	Verify the drop tube is unobstructed (anything that would render the AS valve ineffective) and it is not damaged.				
7	Verify the AS valve is functional, is properly set, and activates when fuel transfer reaches 95 percent of volume.				
<b>BALL FLOAT VALVE</b>					
8	Verify the BFV is compatible with UST configuration and delivery, is properly set, and activates to restrict fuel transfer when delivery reaches 90 percent of tank volume. <b>*** A failed BFV may not be repaired or replaced; must install AS or HLA.</b>				
<b>EXTERNAL HIGH LEVEL ALARM</b>					
9	Verify annunciator is functioning, and is audible/visible to the fuel transfer operator at delivery point.				
10	Verify monitor and probe are properly set, functioning, and activate to alert transfer operator when fuel delivery reaches 90 percent of tank volume.				
<b>OVERFILL DEVICE NOT REQUIRED</b>					
11	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 10 (as applicable) are <b>YES</b> (or Block 11, 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.*

**\*\*\* BFV must be replaced if they are not in good condition, require replacement or repair, or are not set at the correct height; upgrade with AS or HLA to pass inspection. BFV not permitted on a UST system which has one or more: (1) receives a pumped (pressurized) delivery; (2) suction piping with air eliminators; (3) remote fill configuration; (4) emergency generator (18 AAC 78.040(e)).**

**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"/> <b>GALVANIC CATHODIC PROTECTION (TANK AND PIPING) COMPLETE SURVEY FORM</b>					
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 <b>PASS</b> .					
<input type="checkbox"/> <b>IMPRESSED CURRENT CATHODIC PROTECTION (TANK AND PIPING) COMPLETE SURVEY FORM</b>					
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 <b>Yes</b> .					
* 60-DAY RECTIFIER LOG IS FOUND IN THE ADEC GUIDELINE FOR THE EVALUATION OF CATHODIC PROTECTION SYSTEMS.					

**DEFICIENCIES:** \_\_\_\_\_

**FURTHER RECOMMENDATIONS:** \_\_\_\_\_

## SECTION 6: GENERAL COMMENTS

*Note:* UST inspectors are required to report unusual operating conditions on tanks, piping and all components to ADEC, by submitting this Report within 10 days of the inspection (18 AAC 78.017(k)(3)).

OPERATING CONDITIONS					
1	Operator conducts Walkthrough Inspections each 30 days, <input type="checkbox"/> Yes <input type="checkbox"/> No <small>NUMBER OF MONTHS RECORDS AVAILABLE FOR REVIEW:</small>				
2	Note any abnormal piping conditions (e.g., wrinkling, delamination, mold, swelling, kinks, blisters, elongation, softness.) ATTACH DIGITAL PICTURES				
PHOTOGRAPHIC RECORD					
3	Include a digital photographic record of this inspection, for each of the UST system components: Piping, STP and transition sumps, manual tank gauge access, under-dispenser containment, interstitial access, fill riser, leak detection devices for tank and piping, overflow prevention (drop tube, automatic shutoff valve, high-level alarm and/or ball float valve), spill bucket, vent, compliance tag, ATG or tank monitor, and a site overview.				
SPILL REPORTING					
4	<ul style="list-style-type: none"> <li>- You must report a <i>suspected</i> or <i>confirmed</i> release in any amount, within 24 hours (18 AAC 78.220(c)).</li> <li>- You must report if the leak detection method indicates a failed, invalid or inconclusive result, <u>unless</u> you contact your UST worker to immediately evaluate, and repair or upgrade the component.</li> <li>- You must report it, to the UST office at ADEC, if you observe unusual operating conditions, such as a sudden fuel loss, erratic dispensing (slow flow/no flow), or a discharge to soil or water, within 24 hours.</li> </ul>				
5	Report all suspected or confirmed releases from your UST system to: <b>907-269-3055 or 269-7679</b> <i>ADEC spill response information &amp; report form:</i> <a href="http://dec.alaska.gov/spar/ppr/spill-information/reporting/">http://dec.alaska.gov/spar/ppr/spill-information/reporting/</a>				
6	Was a release from the UST system suspected or confirmed? <input type="checkbox"/> Yes <input type="checkbox"/> No <small>OWNER/OPERATOR INITIALS:</small>				

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 <i>UST Operations Inspection</i> and believe the contents of this <i>Report</i> to be true and accurate at the time of inspection. I have no significant financial interest with this UST facility.  <div style="text-align: right;">ADEC Facility # _____</div> Name: _____  Signature: _____  E-Mail: _____  Phone: _____  Inspector ID #: _____      Date: _____</p>	<p>I, the Owner or Operator (<i>circle one</i>) have reviewed this <i>UST Operations Inspection Report</i>, and have been told the status of my UST system(s), including any deficiency conditions, recommendations, and required corrective actions. <u>All applicable pages are initialed.</u>  Print Name: _____  Signature: _____  E-Mail: _____  Phone: _____      Date: _____</p>
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### 7.B. LEAK DETECTION PROBATION AGREEMENT

\*\*If less than 12 months of passing records, the tank and/or piping is on **LEAK DETECTION PROBATION** for at least 12 months. If the most recent ALLD functional test, prior to this inspection, was conducted more than 12 months ago, the UST system is on one year ALLD Probation. The Owner/Operator signs the *Leak Detection Probation Agreement* (below) with an inspector.  
Review *Leak Detection Recordkeeping Fact Sheet* here: <http://dec.alaska.gov/spar/ppr/docs/ust/LDPFactSheet2015.pdf>

<p><b>UST Inspector:</b>  I have been hired to perform leak detection probation inspector duties listed on the <i>Leak Detection Record Keeping Fact Sheet</i>, as applicable. INITIAL _____  LDP Due Date: _____  Note if a different UST Inspector monitors LDP: _____  Date: _____ UST License # _____  Inspector Name: _____  Signature: _____</p>	<p><b>Owner or Operator:</b>  I agree to comply with leak detection monitoring as described on the <i>Leak Detection Record Keeping Fact Sheet</i>, and as applicable to this facility.  Date: _____  Signature: _____</p>
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### 7.C. SUBMIT THE UST OPERATIONS INSPECTION REPORT FOR REVIEW

<p>Your UST Inspector must submit the <u>original UST OPERATIONS INSPECTION REPORT</u> to <b>ADEC</b> within 30 days of your inspection.  Review and initial each page; sign page 12, and return it to your Inspector for timely submittal.</p>	<p><b>Send via USPS or electronic to:</b>  ADEC Underground Storage Tanks  Attn: Susan Young, UST Technician  555 Cordova Street  Anchorage, Alaska 99501-2617  <b>email: SUSAN.YOUNG@ALASKA.GOV</b></p>
<p><b>If your facility failed inspection, this Report must be submitted within 10 days</b> (18 AAC 78.017(k)(3)).</p>	<p>Submit via email to: <a href="mailto:CHERYL.PAIGE@ALASKA.GOV">CHERYL.PAIGE@ALASKA.GOV</a>  or fax: 907-269-7687</p>

## SECTION 7: ADDENDUM

- Document any upgrade, retrofit, replacement, or repair to any component of an underground storage tank (UST) system.
- Definition of a UST system includes: tank, piping, valves, connectors, fittings; tank gauge or monitor; spill buckets, risers and drop tubes; automatic shutoff, ball float, or shear valves; high-level alarm and probes; leak detection probes, detectors or sensors; pumps, sumps, and/or related equipment; the failure of any component of which could cause a release, or cause a release to go undetected or uncontained (definition found in PEI RP100-Recommended Practices for Installation of Underground Liquid Storage Systems, and adopted by reference in 18 AAC 78.025(f)(1)(B)).
- The Owner/Operator must retain this document for the life of the UST system (18 AAC 78.100(f)(1)(B)).
- Submit the completed form (18 AAC 78.455(a)(9)) by email to: [CHERYL.PAIGE@ALASKA.GOV](mailto:CHERYL.PAIGE@ALASKA.GOV), [SUSAN.YOUNG@ALASKA.GOV](mailto:SUSAN.YOUNG@ALASKA.GOV), or fax to: 907-269-7687, or by mail to: ADEC SPAR/CS UST Office, 555 Cordova Street, Anchorage AK 99507-2617
- Questions? Contact Cheryl Paige at 907-269-7679

1. UST INSTALLER		2. UST FACILITY	
NAME:		FACILITY NAME:	FAC #
UST LICENSE #:	CONTACT PHONE or EMAIL:	CLASS A/B OPERATOR:	

3. UPGRADE, RETROFIT, REPLACE, REPAIR WORK								
DATE OF WORK	ADEC UST #	OWNER UST #	PRODUCT	VOLUME	COMPONENT WORKED ON	DESCRIPTION OF WORK	PASS ✓	FAIL ✓

4. UST INSTALLER'S CERTIFICATION OF WORK	
<p>I certify the above described work was completed, under my direct control and on-site supervision, in accordance with UST industry technical standards and Title 18 Alaska Administrative Code (AAC) 78, <i>Underground Storage Tanks</i>.</p> <p>UST WORKER'S SIGNATURE:</p>	DATE:

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
555 CORDOVA STREET ANCHORAGE, ALASKA 99501-2617

UNDERGROUND STORAGE TANKS OFFICE  
PHONE 907-269-7679 FAX 269-7687 [www.dec.alaska.gov](http://www.dec.alaska.gov)

Inspector's Initials \_\_\_\_\_  
Date \_\_\_\_\_

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Date: \_\_\_\_\_