UNDERGROUND STORAGE TANKS
ADEC CHECKLIST - INTERNAL INSPECTION

- An underground storage tank (UST) system that is upgraded, reconfigured, retrofit, or repaired, must be tightness tested or internally inspected by a licensed UST worker, in accordance with Title 18 Alaska Administrative Code (AAC) 78, *Underground Storage Tanks,* using industry standards adopted by reference, or an alternate approved procedure *(18 AAC 78.055(c))*
  - An internal inspection must be performed by a licensed UST worker, certified in inspection *(18 AAC 78.017(g) and 78.455(a)(5))* and the Steel Tank Institute (STI) SP001, *or* the American Petroleum Institute (API) Standard 653 with the SP001 Adjunct; the non-destructive exam (NDE) technician must be certified on the equipment used; UST Inspector must be on site throughout inspection.
  - Definition of a UST system includes the tank, piping, and related equipment, the failure of any component of which, could cause a release, or permit a release to go unnoticed or uncontained *(18 AAC 78.025(f)(1)(B))*
  - Internal inspection definitions are in accordance with STI SP001 and 18 AAC 78; an internal inspection does not substitute for the required triennial third-party inspection *(18 AAC 78.017)* but may be required in conjunction with it
  - UST systems, shop-fabricated or field-erected, if larger than 20,000 gallons, may be difficult to inspect for suitability to return-to-service using tank-tightness testing (TTT) which must meet 18 AAC 78.065(d); a licensed UST worker certified in TTT, is required *(18 AAC 78.455(a)(3));* TTT equipment and method must be third-party certified for the tank type and volume, as well as determination of depth-to-groundwater and presence of petroleum in the tank-nest bedding prior to performing tests *(18 AAC 78.065(k))*
  - Owner responsibilities must be in compliance with fire and safety ordinances, regulatory and industry standards.
- Criteria for internal inspection *(18 AAC 78.055(c)(4))* are the procedures, codes or standards of:
  - National Leak Prevention Association (NLPA) *Standard 631-Chapter C, Internal Inspection of Tanks for Retrofit of Cathodic Protection*
  - Steel Tank Institute (STI) *SP001-Standard for the Inspection of ASTs*
  - American Petroleum Institute (API) *Standard 653, Tank Inspection, Repair, Alteration, and Reconstruction.*

I. UST OWNER		II. UST FACILITY	
NAME:		FACILITY NAME:	ADEC FAC #
ADDRESS:		PHYSICAL LOCATION:	
CITY:	STATE, ZIP:	CITY:	FACILITY PHONE:
UST CLASS A/B OPERATOR:		PHONE/EMAIL OF A/B OPERATOR:	

III. UST INSPECTOR		IV. NDE TECHNICIAN	
NAME:		NAME:	
EXPIRY DATE OF UST CERTIFICATION	LICENSE #:	COMPANY:	
DATE OF STI SP001 CERTIFICATION	LICENSE #:	CONTACT PHONE:	EMAIL:
DATE OF API 653 CERTIFICATION	LICENSE #:	1. NDE METHOD USED, DATE OF CERTIFICATION:	
CONTACT PHONE:		2. NDE METHOD USED, DATE OF CERTIFICATION:	
EMAIL ADDRESS:		3. NDE METHOD USED, DATE OF CERTIFICATION:	

V. TANK DETAILS

USE THE ADEC TANK NUMBER:	TANK #	TANK #	TANK #	TANK #
PRODUCT:				
CAPACITY (GAL):				
TANK MATERIAL:	STEEL, FIBERGLASS, ETC.	STEEL, FIBERGLASS, ETC.	STEEL, FIBERGLASS, ETC.	STEEL, FIBERGLASS, ETC.
TANK CONFIGURATION:	DOUBLE-WALL ☐ MANIFOLD/SYPHON ☐ LEAK DETECTION ☐ SPILL BUCKET ☐ DROP TUBE ☐ OVERFILL, AS OR HLA ☐	DOUBLE-WALL ☐ MANIFOLD/SYPHON ☐ LEAK DETECTION ☐ SPILL BUCKET ☐ DROP TUBE ☐ OVERFILL, AS OR HLA ☐	DOUBLE-WALL ☐ MANIFOLD/SYPHON ☐ LEAK DETECTION ☐ SPILL BUCKET ☐ DROP TUBE ☐ OVERFILL, AS OR HLA ☐	DOUBLE-WALL ☐ MANIFOLD/SYPHON ☐ LEAK DETECTION ☐ SPILL BUCKET ☐ DROP TUBE ☐ OVERFILL, AS OR HLA ☐
CORROSION PROTECTION: DATE OF LAST CP SURVEY:	GALVANIC ☐ IMPRESSED CURRENT ☐ PASS? ☐	GALVANIC ☐ IMPRESSED CURRENT ☐ PASS? ☐	GALVANIC ☐ IMPRESSED CURRENT ☐ PASS? ☐	GALVANIC ☐ IMPRESSED CURRENT ☐ PASS? ☐

VI. INTERNAL INSPECTION DETAILS

Date of Internal Inspection:				
Date Product Last Stored:				
Inspection Criteria: *(18 ACC 78.055(c))*	SP001 ☐ API 653 ☐	SP001 ☐ API 653 ☐	SP001 ☐ API 653 ☐	SP001 ☐ API 653 ☐
STI *SP001* 5.4:	Category 2 ☐ Category 3 ☐	Category 2 ☐ Category 3 ☐	Category 2 ☐ Category 3 ☐	Category 2 ☐ Category 3 ☐
1. NDE Method, Factors:				
2. NDE Method, Factors:				
3. NDE Method, Factors:				
Weld Inspection: *If NDE was Used, List Method:*	Visual ☐ NDE ☐	Visual ☐ NDE ☐	Visual ☐ NDE ☐	Visual ☐ NDE ☐
Identify Condition and Record **Mechanical:** *Attach Photographs*	Damage ☐ Cracking ☐ Corrosion ☐	Damage ☐ Cracking ☐ Corrosion ☐	Damage ☐ Cracking ☐ Corrosion ☐	Damage ☐ Cracking ☐ Corrosion ☐
Identify Condition and Record **Internal Attachments:** *Attach Photographs*	Damage ☐ Corrosion ☐ Deterioration ☐	Damage ☐ Corrosion ☐ Deterioration ☐	Damage ☐ Corrosion ☐ Deterioration ☐	Damage ☐ Corrosion ☐ Deterioration ☐
Identify Condition and Record **Internal Thickness:** *Attach Photographs and a Wall Matrix or Test-Plot Diagram*	MIC Damage ☐ Internal Structures ☐ Internal Wall ☐ Diagram Attached ☐	MIC Damage ☐ Internal Structures ☐ Internal Wall ☐ Diagram Attached ☐	MIC Damage ☐ Internal Structures ☐ Internal Wall ☐ Diagram Attached ☐	MIC Damage ☐ Internal Structures ☐ Internal Wall ☐ Diagram Attached ☐
Photographic Record	Digital Attached ☐	Digital Attached ☐	Digital Attached ☐	Digital Attached ☐

VII. DETERMINATION OF SUITABILITY FOR CONTINUED SERVICE

Microbial Induced Corrosion	Present ☐ Mitigated ☐	Present ☐ Mitigated ☐	Present ☐ Mitigated ☐	Present ☐ Mitigated ☐
Corrosion Under Insulation	Present ☐ Mitigated ☐	Present ☐ Mitigated ☐	Present ☐ Mitigated ☐	Present ☐ Mitigated ☐
Wall Thickness: Category 3 Express findings as a percentage of the original wall thickness. *(SP001 §10.2.2)*	________ Percent Next Internal Inspection: Two Years ☐ Five Years ☐	________ Percent Next Internal Inspection: Two Years ☐ Five Years ☐	________ Percent Next Internal Inspection: Two Years ☐ Five Years ☐	________ Percent Next Internal Inspection: Two Years ☐ Five Years ☐
Wall Thickness: Category 2 1. Any three square inches of any one square foot of the tank shell is less than 75 percent of the original wall thickness; *or* 2. Remaining shell thickness is less than 50 percent of original wall thickness at any point. *(SP001 §10.2.3)*	1. Three Square Inches is less than 75%, *or* ☐ 2. Less than 50% Shell remains at any point ☐ Next Internal Inspection is in Five Years ☐	1. Three Square Inches is less than 75%, *or* ☐ 2. Less than 50% Shell remains at any point ☐ Next Internal Inspection is in Five Years ☐	1. Three Square Inches is less than 75%, *or* ☐ 2. Less than 50% Shell remains at any point ☐ Next Internal Inspection is in Five Years ☐	1. Three Square Inches is less than 75%, *or* ☐ 2. Less than 50% Shell remains at any point ☐ Next Internal Inspection is in Five Years ☐
Damage to be Repaired	Welds ☐ Cracking ☐ Corrosion ☐ Attachments ☐ Overpressure ☐ Excessive Settling ☐ Shifting ☐	Welds ☐ Cracking ☐ Corrosion ☐ Attachments ☐ Overpressure ☐ Excessive Settling ☐ Shifting ☐	Welds ☐ Cracking ☐ Corrosion ☐ Attachments ☐ Overpressure ☐ Excessive Settling ☐ Shifting ☐	Welds ☐ Cracking ☐ Corrosion ☐ Attachments ☐ Overpressure ☐ Excessive Settling ☐ Shifting ☐

VIII. SITE SKETCH

⇨ Provide a basic layout of the UST SYSTEM. **Indicate North.** Reference streets or landmarks.

LEGEND KEY

- ❑ (T) Tank, include ADEC Tank # (identify all compartments)
- ❑ (PS) Piping sumps
- ❑ (SP) Spill Buckets
- ❑ (OP) Overfill Alarm
- ❑ (IM) Tank Interstitial Monitoring Access
- ❑ (MG) Tank Manual-Gauging Access
- ❑ (RCT) Rectifier
- ❑ (AN) Location of Anodes
- ❑ (R_1, R_2, etc.) Reference-cell locations for CP
- ❑ (T_1, T_2, P_1, etc.) Structure CP Contact Points
- ❑ (V) Vents
- ❑ (D) Dispensers
- ❑ Indicate ↑ North Arrow
- ❑ Add GPS Coordinates ***OR***
- ❑ Add Street(s) or Building landmarks

IX. UST WORKER CERTIFICATION

UST INSPECTOR LICENSE # **DATE:** **PHONE:**

PRINT NAME: **SIGNATURE:**

The UST Inspector who supervised the internal inspection of the UST system(s) must complete and sign this document, and provide a copy to the owner and operator *(18 AAC 78.455(a)(9))*. Submit the **signed original** of this document, within 30 days of the internal inspection, to the ADEC SPAR CS UST Unit.