**Data Chart for Tank System Tightness Test**

1. **OWNER**
   - Property
   - Tank(s)
<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
<th>Representative</th>
<th>Telephone</th>
</tr>
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</table>

2. **OPERATOR**
<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
<th>Telephone</th>
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3. **REASON FOR TEST**
   (Explain fully)

4. **WHO REQUESTED TEST AND WHEN**
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Company or Affiliation</th>
<th>Date</th>
</tr>
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</table>

5. **TANK INVOLVED**
   - Use additional lines for manifoded tanks
   - Identify by Direction
   - Capacity
   - Brand/Supplier
   - Grade
   - Approx. Age
   - Steel/Fiberglass

6. **INSTALLATION DATA**
   - Location
   - Cover
   - Fills
   - Vents
   - Siphones
   - Pumps

7. **UNDERGROUND WATER**
   - Depth to the Water table
   - Is the water over the tank?

8. **FILL-UP ARRANGEMENTS**
   - Tanks to be filled
   - Date
   - Arranged by
   - Terminal or other contact
   - Name
   - Telephone

9. **CONTRACTOR, MECHANICS, any other contractor involved**

10. **OTHER INFORMATION OR REMARKS**
    - Additional information on any items above. Officials or others to be advised when testing is in progress or completed. Visitors or observers present during test, etc.

11. **TEST RESULTS**
    - Tests were made on the above tank systems in accordance with test procedures prescribed for as detailed on attached test charts with results as follows:
    - Tank Identification
    - Tight
    - Leakage Indicated
    - Date Tested
    | #7 | No | DK | 9-17-92 |

12. **SENSOR CERTIFICATION**
    - Date
    - Certification #

13. This is to certify that these tank systems were tested on the date(s) shown. Those indicated as "Tight" meet the criteria established by the National Fire Protection Association Pamphlet 329.

   - Technicians
   - Testing Contractor or Company
   - Signature
   - Address
   - 2302 A St. Tacoma WA 98409
Statement:

☐ Tank and product handling system has been tested tight according to the Precision Test Criteria as established by N.F.P.A. publication 329. This is not intended to indicate permission of a leak.

OR

☐ Tank and product handling system has failed the tank tightness test according to the Precision Test Criteria as established by N.F.P.A. publication 329.

It is the responsibility of the owner and/or operator of this system to immediately advise state and local authorities of any implied hazard and the possibility of any reportable pollution to the environment. As a result of the indicated failure of this system, Heath Consultants Incorporated does not assume any responsibility or liability for any loss of product to the environment.

Tank Owner/Operator ____________________________

Date ____________________________
2. Have all written testing procedures developed by the manufacturer of the testing equipment and method been followed while the test was being set up and conducted? **X**

3. Was the product level in the tank during the test within the limitations stated in the evaluation results used to demonstrate that the tightness test method meets performance standards? **X**

4. Was the waiting period between the addition of product to the tank and the beginning of the test at or above the minimum waiting period stated in the evaluation results? **X**

5. If groundwater was present above the bottom of the tank, have the testing procedures accounted for its presence? (for single wall tanks) **X**

6. Have any loose fittings at the top of the tank been either tightened prior to beginning the test or accounted for when conducting the test and evaluating test results? (Applies to overfill methods only)

   *Exception: Interstitial space fitting on double wall tank should remain loose during test for interstitial space to vent to atmosphere.* **X**

7. Have all vapor pockets either been removed prior to beginning the test or otherwise accounted for when conducting the test and evaluating test results? **X**

8. Based on evaluating test results and conducting any retesting as necessary to obtain conclusive test results, the tightness test is:

   - Passed
   - Failed

   *Note: Inconclusive test results will not be considered as a valid tightness test for purposes of complying with UST release detection regulations.*

9. If the tightness test is considered a failed test, has the owner/.operator been notified of the test results? **X**

   *Note: The tank owner or operator must report a failed tightness test as a suspected release to UST staff at the appropriate Ecology regional office within 24 hours of being notified by the testing firm that a failed tightness test has occurred.*

10. If a failed test has occurred, results indicate that there is a leak in the:

    - Tank
    - Piping System

    If known, the leak rate is: \[ \frac{\text{gallons per hour}}{\text{X}} \]

*Item not applicable

I hereby certify that I have been the licensed supervisor present during the above listed tightness testing activities and to the best of my knowledge they have been conducted in compliance with all applicable state and federal laws, regulations and procedures pertaining to underground storage tanks.

Persons submitting false information are subject to penalties under Chapter 173-360 WAC.

**Signature of Licensed Supervisor**

Date: 9-17-2

5. ADDITIONAL REQUIRED SIGNATURES

**Date: 9-17-2**

**Signature of Licensed Service Provider firm (owner or person with signature authority)**

Date: **Signature of Tank Owner or Authorized Representative**
### 3. TANK AND TESTING INFORMATION

1. **Tank ID Number (as registered with Ecology):**
2. **Date installed:**
3. **Tank capacity in gallons:** 10,200
4. **Date of tightness test:** 9-17-2
5. **Last substance stored:** Heating Oil
6. **Is tank compartmentalized?** No
7. **Tank is:** Single wall / double wall
8. **Reason for conducting tightness test:**
   - To comply with leak detection requirements in UST rules
   - To bring temporarily closed tank back into service
   - Tank or piping repair
   - Other (describe) - CSA Request
9. **Type of test conducted:**
   - Tank tightness test only
   - Line tightness test only
   - Tank and lines tested separately
   - Total system test (tank and lines tested together)
10. **Test method type:**
    - Overfill
    - Underfill volumetric
    - Nonvolumetric
11. **Tightness testing method(s) used (Indicate if more than one method was used - see note following item 12):**
    - Test method name/version: PETRO-TIT
    - Test method manufacturer: HASTA CONSULTANTS
12. If a tank tightness test was conducted, indicate the percentage of tank volume that was filled with product during the test: 120.70%

   **Note:** A tank must be tested up to the product level limited by the overfill prevention device. If an overfill prevention device is not installed, a tank must be tested up to the 95% full level. When underfill volumetric testing methods are used, the tank must be: 1) filled with product to the 95% full level or 2) the portion of the tank above the product level must be tested using a nonvolumetric method which meets performance standards for tightness testing.

13. Indicate the method used to determine if groundwater was present above the bottom of the tank during the test (for single wall tanks):

### 4. CHECKLIST

The following items shall be initialed by the licensed supervisor whose signature appears below.

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
<th>NA*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>X</td>
<td></td>
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</tbody>
</table>

**Note:** A copy of Ecology's policy for demonstrating that leak detection methods meet performance standards may be obtained by contacting Ecology's UST section in Olympia.
0845 set up equipment Trip off. Turn on circulating pump. Leak found in manway lid. Attempt to tighten leak persists. Remove equipment. Drop product level below tank top.
15. TANK TO TEST

#7
Identity by position
Heat 0.1 (Diesel)
Brand and Grade

15a. BRIEF DIAGRAM OF TANK FIELD

16. CAPACITY

Nominal Capacity 10,000 Gallons
By most accurate capacity chart available 10,310 Gallons

17. FILL-UP FOR TEST

Stick Water Bottom before Fill-up: 0 in. to 1/2 in. Gallons 95 in. Tank Diameter

Inventory 95 Gallons

17. FILL-UP FOR TEST

19. TANK MEASUREMENTS FOR TSTT ASSEMBLY

Bottom of tank to grade*: 134 in.
Add 30° for "T" probe assy. 30 in.
Total tubing to assemble — approximate: 164 in.

20. EXTENSION HOSE SETTING

Tank top to grade*: 39 in.
Extend hose on suction tube 6" or more below tank top: 39 in.

*If Fill pipe extends above grade, use top of fill.

21. VAPOR RECOVERY SYSTEM

Stage I Stage II

24b. COEFFICIENT OF EXPANSION RECIPROCAL METHOD

Heat 0.1

24c. FOR TESTING WITH WATER see Table C & D

25. (a) Total quantity in full tank (16 or 17)  
(a) Coefficient of expansion for involved product  
(c) Volume change in this tank per °F

26. (a) Volume change per °F (25 or 24b)  
(b) Digits per °F in test range (23)  
(c) Volume change per digit

The above calculations are to be used for dry soil conditions to establish a positive pressure advantage, or when using the four pound rule to compensate for the presence of subsurface water in the tank area.

Refer to N.F.P.A. 30, Sections 2-3.2.4 and 2-7.2 and the tank manufacturer regarding allowable system test pressures.