



CATHODICALLY PROTECTED UNDERGROUND STORAGE TANKS



R821

# INSTALLATION CHECKLIST

February 2017

Owner of Tank: \_\_\_\_\_

sti-P3® Label No.: \_\_\_\_\_

Location of Tank: \_\_\_\_\_

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

### HANDLING

The handling equipment is of adequate size and capacity to lift and lower the tank without dragging or dropping \_\_\_\_\_

The repair of any damaged laminate areas has been made in accordance with installation instructions \_\_\_\_\_

Plastic wrap has been removed from the weld-on zinc anode \_\_\_\_\_

### EXCAVATION

The site has been excavated deep enough to enable 1 foot of compacted clean sand or gravel to act as bedding material between native soil and tank when anchoring is not required \_\_\_\_\_

Burial depths meet minimum code requirements (such as NFPA 30). \_\_\_\_\_

NOTE: Check with tank manufacturer when burial depth exceeds 5 feet. Steel thickness can be calculated for the required burial depth.

### TESTING

The tank has been air-tested at 5 psig (kPa) while applying soap solution onto weld seams and fittings to check for leaks OR \_\_\_\_\_

A vacuum test has been performed in accordance with the fabricator's instructions \_\_\_\_\_

All local and state testing requirements have been performed \_\_\_\_\_

### ANCHORING (check one)

Not applicable to this site \_\_\_\_\_

Deadman anchors used \_\_\_\_\_

Concrete pad \_\_\_\_\_

Soil and pavement overburden will hold down tank (Reference PEI/RP 100) \_\_\_\_\_

When anchoring with a concrete hold down pad, a minimum 6 inch (152.4 mm) layer of pea over the concrete pad dimensions to separate tank from pad \_\_\_\_\_

When deadman anchors or hold down pads are used, hold down straps have been separated from the tank by an inert insulating dielectric material at least 1 inch (25.4 mm) wider than the steel hold down straps \_\_\_\_\_

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Tank is electrically isolated from the hold down strap. \_\_\_\_\_

### BACKFILL

Homogenous backfill consisting of clean sand, pea gravel, #8 crushed stone or material earthen material has been used \_\_\_\_\_

Backfill is the same material as bedding \_\_\_\_\_

Backfill has been placed along sides of tank to ensure full support along the tank's bottom quadrant \_\_\_\_\_

### PIPE CONNECTIONS

Electrical isolation of flanged connections has been verified with a continuity tester. \_\_\_\_\_

Prior to backfilling over tank top, but after piping to the tank, electrical isolation of tank from all equipment has been verified. \_\_\_\_\_

No continuity shall be present. \_\_\_\_\_

### TANK MONITORING

The cathodic protection monitoring station has been installed and brought to grade and access to the soil above the tank has been provided \_\_\_\_\_

Verify operation of the cathodic protection system by: A tank to soil potential reading obtained with a high impedance voltmeter and a copper/copper sulfate reference electrode installed with the tank or placed immediately above the tank in soil.

Record reading: \_\_\_\_\_ mV

The tank owner has received the above information \_\_\_\_\_

All other facets of tank installation have been made in accordance with sti-P3® instructions \_\_\_\_\_

Signature and Title of Installing Foreman and/or Project Engineer

Signature and Title of Installing Contract

Note: This checklist includes certain key steps in the proper installation of the sti-P3 tank and is intended only as an aid to tank installers who are knowledgeable and experienced in underground tank installation. Compliance herewith does not necessarily meet the requirements of all applicable federal, state, and local laws, regulations and ordinances concerning tank installation.