Q U A L I T Y  W O R K  A T  I T S  B E S T !

SERVICES AVAILABLE

- HEAT TRACING SYSTEMS (Electric & Steam)
- STANDING SEAM STORAGE TANK PANELING SYSTEM
- INDUSTRIAL & COMMERCIAL INSULATION (Cold & Hot)
- SEWN REMOVABLE BLANKETS
- CUI - CORROSION UNDER INSULATION (Detection & Prevention)
- SCAFFOLDING SYSTEM
- CERTIFIED INSULATION APPRAISALS & HVAC UNITS
- MAINTENANCE SERVICES & PAINTING

WWW.SLI-SERVICES.COM
Our main goals are safety and customer satisfaction. As of 2014 we’ve had a total of 322,012 man worked hours and we look forward to many more in the coming years. Straight Line Industrial Services, Inc. has a complete safety program that includes: Pre-Employment and Random Drug Testing, Employee Orientations, Daily Job Safety Analysis (JSA’s), Right to Know Hazard Communication, MSDS Manuals, LOTO Training, Sexual Harassment Policy, Scaffolding and Incident Reporting and Hearing Conservation.

Safety is Straight Line Industrial Services, Inc. number one core value. We hold employee safety as our main priority for two reasons:

- First, the health and well-being of our employees, both on and off the job, is essential.
- Second, a company cannot endure the economic loss following accidents and injuries.

Our devotion to the achievement of excellence in the fields of safety and accident prevention are impeccable.

Commitment and accountability of these principles are a responsibility of not only the employee but also the employer and the management.

**SLIS 2014 Texas Mutual Workers Compensation Health & Safety Recognition**

Straight Line Industrial Services, Inc. is a member of DISA Inc. for drug screening of all our employees. We are also members of the Houston, Baytown and Texas City Area Safety Councils.

All employees hold a current TWIC card which is required by the U.S. Government & our customers.

Straight Line Industrial Services, Inc. is enrolled with the federal government through the E-Verify program.

**OUR CURRENT EMR AS OF January, 2015 is 0.69**

Straight Line Industrial Services, Inc. provides the following on all proposals:

- Commercial General Liability 2,000,000 General Aggregate
- Automobile Liability 1,000,000 Combined Single Limit
- Umbrella Liability 10,000,000 Aggregate
- Workers Compensation 1,000,000 Each Accident
- Pollution Liability 1,000,000 Each loss Aggregate
- Maritime & USL & H included 1,000,000 Each Accident
**STEAM TRACING**

Steam Tracing is described as the attachment of a tube (Copper or Stainless) containing saturated steam, also known as the “tracer”, parallel to the process fluid pipe. The two pipes are then insulated together with the appropriate insulation and jacketing.

Although Steam Tracing is more intensive compared to electrical heat tracing, there are fewer risks associated with it. The temperature of the tracer cannot surpass the maximum saturation temperature of the steam, as it operates at specific steam pressures.

**DEMANDS**

The demands placed on heat tracing systems vary based on the design parameters specific to each application.

To meet these needs, Straight Line Industrial Services, Inc. uses Thermon® manufacturing as its supplier who has the widest variety of electric heating cables and control systems in the world.

Heat Tracing System prevents heat loss

Heat tracing is used to avert heat loss from process fluids conveying through process fluid pipes, when there is a possibility of damage to piping or a disturbance with the operation, some examples are: Entwine or obstruction caused by the congealing- increase in viscosity or separation of components - fluids below certain temperatures or when there is risk of formation of harmful substances or dampness due to condensation. This prevention of heat loss is accomplished by applying electrical or steam tracing, also by making sure that both the process fluid pipe and the tracer are properly insulated, which entails proper insulation material and metal lagging. This is vital for reducing heat loss from the pipe and tracer to their surroundings.

**ELECTRIC TRACING**

Similar to steam tracing, but instead a heating cable that is constantly transmitting wattage is attached to the process fluid pipe. This system is monitored by a Microprocessor-Based Control Unit which permits on-off heat tracing control with numerous capabilities such as readings of the heating and temperature of cables. The heat cable and the pipe are insulated together with the specified insulation and jacketing.

Electrical heat tracing is less work labor than steam tracing.

We also offer Hot Oil tracing as an alternative.
Insulation is defined as those materials or a combination of materials which decelerate the flow of heat energy by performing one or more of the following functions:

- Conserve energy by reducing heat loss or gain.
- Control surface temperatures for personnel protection and comfort.
- Facilitates temperature control of a process.
- Prevent vapor flow and water condensation on cold surfaces.
- Increase operating efficiency of heating, ventilating, cooling, plumbing, steam process and power systems found in commercial and industrial installations.
- Prevent or reduce damage to equipment caused by exposure to fire or corrosive atmospheres.
- Assist mechanical systems in meeting USDA (FDA) criteria in food and cosmetic plants.

A primary attribute of thermal insulation material is its ability to reduce heat transfer between surfaces that have thermal contact. The insulating capability of a certain material is measured with thermal conductivity. For example, low thermal conductivity corresponds to high insulating capacity of a given material and set of conditions.

**FULL SERVICE**

Straight Line Industrial Services, Inc. is a full service Thermal Insulation Company which specializes in commercial heating, ventilation, cooling, processing fluids, and plumbing systems. These systems are located but are not limited to the following areas: Chemical & Refinery Plants, Central Plants; Commercial, Educational, Government, Military & Healthcare Offices, Historic Properties, Hotels, Multi-family residential, Restaurants, Retail and Assembly Technology.
BLANKET INSULATION SYSTEM

PROVIDING YOUR SKIDS THE INSULATION PROTECTION TECHNOLOGY YOU NEED

Our removable insulation blankets are custom-built and manufactured for each individual item that is needed. A close contour fit is indispensable for a precise appearance and proper thermal performance. Blanket covers are frequently designed in segments to fit most applications.

flexible solutions,
for your insulation needs

TYPICAL APPLICATIONS:

PIPING
- Spool pieces
- 45° and 90° Ell's – Bend
- 180°
- Tees
- Reducing Outlet Tees
- Concentric Reducers
- Eccentric Reducers

VALVES
- Gate Valves
- Check Valves
- Globe Valves
- Control Valves
- Angle Valves
- Ball Valves
- Relief Valves
- Butterfly Valves

EQUIPMENT
- Pumps
- Turbines
- Vessels & Tanks
- Exchangers
- Column Heads
- Manways
- Expansion Joints
- Exhaust Systems
- Steam Traps

FLANGES
- Pipe Fittings
- Orifice Flanges
- Blind Flanges
- Exchanger Flanges

INSTRUMENTATION
- D.P. Cells
- Level Gauges
- Level Controllers
- Manifolds
- Flow Transmitters

PERSONAL PROTECTION

Pads are malleable, pulse resistant, and can be used with any equipment, whether it is vertically or horizontally mounted. Piping and equipment at any high temperature ought to be insulated in order to reduce heat loss and enhance safety. As a general rule, any surface that reaches temperatures greater than 100°F should be insulated to protect personnel.

EASY TO REMOVE

Insulated blankets and/or pads can easily be removed for periodic inspections or regular maintenance, and replaced as required.

Straight Line Industrial Services, Inc. can also build blankets with acoustical barriers to support & assist with noise control.

Heat Tracing Blankets
Available!
**DESCRIPTION**

The design for the tanks utilize our Strong Seam® insulation system, which is a structure that includes a vertical panel that utilizes cables around the tank wall to secure the insulation panels. The Strong Seam® panels are fastened to the anchor cables by a “T” clip fastener. The “T” Clip extends outward at the seams of the panels. The seams are machine rolled with the “T” Clip, locking the panels together and securing them to the Anchor Cable. This Anchor Cable and “T” Clip combination eliminates external banding.

**ROOF SYSTEM**

Our Standing Seam paneling systems are exemplary for all types of tanks, whether they are large, flat-bottom or storage tanks that are susceptible to temperature fluctuations and require a layer of insulation and jacketing to minimize heat loss or gain.

**SULPHUR, HOT OIL OR ASPHALT TANKS**

When the tank operating temperature exceeds 275°F, the tank will expand or retract during the course of the tank start up or shut down, causing the insulation system to crack which will require a replacement at your own expense. In cases like this, we highly recommend an expansion joint for the roof to help deal with this issue. An expansion joint of the tank insulation serves a purpose to absorb the lineal motion caused by the heat expansion. We recommend a two layer application for side-walls and roofs.

*In addition to turn key projects, we sell materials to other contractors.*
The system is best described by the Layher® team, “The result of superior design: up to 8 connections can be made in the structurally ideal All-Round® connector on one level and at various angles. How the system is assembled is self-explanatory. The 4 narrow punched-out holes automatically center the ledgers in the correct dimensions and at right angles – the 4 wide holes permit alignment of ledgers and diagonal braces at the angles required.”

Straight Line Industrial Services, Inc. has a large team of competent scaffold builders; we use Layher Scaffolding materials for all of our installations.

**LAYHER LADDERS**

We choose Layher® ladders because they are –the Worlds Leading Scaffold Manufacturer– they offer us an assorted range of rungs, steps and special ladders to fulfill our scaffolding needs. Layher® ladders also offer us the safety and security we require for our scaffold builders.
MEMBERS OF:

- PICS - PACIFIC INDUSTRIAL CONTRACTOR SCREENING
- SIA - SCAFFOLD INDUSTRY ASSOCIATION
- ILTA - INTERNATIONAL LIQUID TERMINALS ASSOCIATION
- ABC - ASSOCIATED BUILDERS AND CONTRACTORS, INC.
- HASC - HOUSTON AREAS SAFETY COUNCIL
- HUB - HISTORICALLY UNDERUTILIZED BUSINESS
- HMSDC - HOUSTON MINORITY SUPPLIER DEVELOPMENT COUNCIL
- ISTC - INDUSTRIAL SAFETY TRAINING COUNCIL
- ISNETWORLD
- DISA
- TEXAS CITY SAFETY COUNCIL
- PORT OF HOUSTON AUTHORITY
- SSPC – SOCIETY FOR PROTECTIVE COATINGS

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