

# **BENEFITS:**

- Eliminate excess steam usage
- Lower condensate load
- Process will remain heated
- Reduce water hammering
- Identify all safety issues

# **Insulation Survey Case Study**



# BACKGROUND:

The client is one of the largest petrochemical complexes in the United States. It has a capacity of 584,000 barrels per day. Employees over 7,000 people.

# **RESULTS**:

 Excess steam and condensate load dropped dramatically reducing the risk of losing the plant due to steam loss.

(PCE only surveyed a portion of the plant)

# THE TASK:

**SOLUTION:** 

steam.

To reduce steam load, keep the processes heated and to evaluate all steam lines. To identify why after 5 consecutive days of excessive rain did the refineries steam load increase to the point of shutting the plant down

Perform a plant wide Insulation

survey to inspect the system for any opportunities to conserve

# **INSULATION LEAK SURVEY**

- Heat loss 61,099,010 (kbtu/ft/yr)
- Dollar loss \$280,617.36 (\$/ft/yr)
- CO2 9,493,156 (lb/ft/yr)

#### **RECOMMENDATIONS:**

For the client to survey the areas that were not surveyed initially and to implement a yearly survey into the preventative maintenance program to keep the steam and condensate load down.

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