



ENGINEERED SOLUTIONS



An IDEX Fluid & Metering Business



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SAMP/LCE thanks to its experience in engineering, is able to offer innovative and customized solutions in petrochemical fluids measuring and transports. SAMP/LCE provides completely integrated measuring systems, designed at the instance of the customer for his operative needs. Thanks to an effective quality control system, the systems are designed, assembled, wired and carefully tested. SAMP/LCE checks and manages completely every step like designing, engineering, assembling, testing and start-up. This management guarantees measuring precision and reliability of our systems either allows the delivery in time to satisfy customer requirements. Thanks to over 60 years of experience SAMP/LCE offers qualified technicians in testing and start-up organization to guarantee maintenance of all its systems all over the world. Our main products and services line includes:

- Positive Displacement, Turbine or Magnetic flow meters for petroleum and chemical liquids;
- Rotary and Centrifugal Pumps for fuels;
- Electric or Diesel Engine driven Pump sets;
- High Speed dispensers for marinas, military vehicles, railways, aircrafts and helicopters;
- Flow Control Valves;
- Mechanical and Electronic registers;
- Grounding Devices and Overfill Protection Systems

Systems:

- Complete skid mounted pumping and measuring systems
- Bottom and Top Loading Racks
- Blending and addition skids
- Transfer / Bunkering Systems
- Off-Loading Skids

Services:

- Engineering Services for mechanical and civil works
- Assistance for On-Site Commissioning and Start-up
- Training Seminar for operation and maintenance (in factory or on site)
- After Sales Service and Maintenance
- On-line support for automation software

UNLOADING – OFFLOADING SKID

OVERVIEW:

Movement and storage of a great deal of product (therefore of a great value) need a great accuracy in measurement first of all. SAMPI/LCE is able to offer a wide set of suitable solutions for the downloading control, movement and storage of petrochemical products. SAMPI/LCE offers the best and reliable technologies in its systems among which:

- PD meters
- Turbine meters
- MAS meters
- Ultrasonic meters
- Complete terminal automation systems solutions (TAS)
- Electronic Flow computer (TE550)
- Valves
- Digital flow-control valves
- Electropumps
- Strainers
- Complete instrumentation packages

REFERENCE PROJECTS:

2005
JET A1,JP8 OFFLOADING & DISPENSING SKID
(SK0056/58) ES-KO/PAE JV (FOR NAMSA/NATO)
AFGHANISTAN



2007
JET A1 OFFLOADING SKID (SK0101)
ES-KO/PAE JV (FOR NAMSA/NATO)
AFGHANISTAN



2007
FUEL OIL UNLOADING SKIDS
(SK0115) SCDP – MINISTRY OF OIL
IRAQ



2007
DIESEL OFFLOADING SKID (SK0127)
ES-KO/PAE JV (FOR NAMSA/NATO)
AFGHANISTAN



2007-2008
FUEL-OIL UNLOADING STATION (SK0203)
ALSTOM POWER CENTRALES (FOR SONELGAZ)
RELIZANE POWER PLANT
ALGERIA



2008
JP8 UNLOADING SKID (SK0215)
ARKEK INTERNATIONAL INC.
IRAQ



TOP-BOTTOM LOADING & METERING SKIDS

OVERVIEW:

Top-Bottom loading skids: Management and optimization need of tank truck uploading requires uploading systems with particular features like precision, flexibility, user-friendliness and the lowest maintenance. SAMPI/LCE designs and builds complete top and bottom uploading skids for tank truck, tank wagon, etc...

These skids, designed at the instance of the customer, are the ideal solution to upload every petrochemical liquid and are provided with:

- Meters
- Valves
- Digital flow-control valves
- Electropumps
- Strainers
- Electronic Flow computers (TE550)
- Delivery supervision system
- Complete instrumentation packages
- Loading Arms (bottom or top)

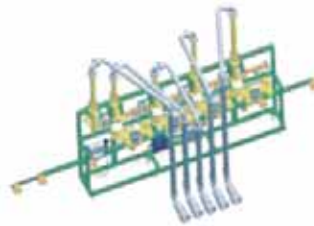
METERING SKIDS:

According to different metering needs of transfer lines, SAMPI/LCE is able to supply various solutions including:

- Meters
- Valves
- Digital flow-control valves
- Electropumps
- Strainers
- Electronic Flow computers (TE550)
- Delivery supervision system
- Complete instrumentation packages

REFERENCE PROJECTS:

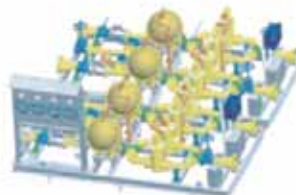
2006
FUEL TERMINAL BOTTON
LOADING SKID (SK0075)
SOFEMA LDA
(FOR TERPARQUE)
AZGRES
PORTUGAL



2006
TOP & BOTTOM LOADING SKID
(SK0100)
SHELL HELLAS
ERAKLION
GREECE



2007-2008
DIESEL FUEL OIL METERING STATION
(SK0198)
AL ASWAD (for Saudi Electric Company)
RYADH - SAUDI ARABIA



2007
LPG METERING SKID
(SK0132)
CHINA NATIONAL PETROLEUM
COMPANY
KAZAKHSTAN



BLENDING SKID

OVERVIEW:

With the increase of petrochemical refining processes complexity, it's more and more necessary to manage the components blending to obtain refined products, using accurate measuring systems in a wide set of applications.

SAMPI/LCE builds blending skids, on request, able to control continuously the proportion of two or more components to get a product with defined characteristics. Blending skids are made of the simultaneous blending of more components in a single tank. Every component is measured with a meter and regulated by digital valves.

Blending (regardless of method) need a description of percentages of all components.

SAMPI/LCE uses TE550 electronic register for the blending control, that is completely programmable and is able to manage until 4 lines and 8 possible combinations, each of them can contain until 4 separate products.

2006
BLENDING SKID (SK0081)
COSTIERI D'ALESSIO SPA
IFO BUNKERING
ITALY



ADDITIVATION SKIDS

OVERVIEW:

SAMPI/LCE builds complete addition plants, at the instance of the customer too, mainly consist of two lines: one for the product to be additivated and one for the additive.

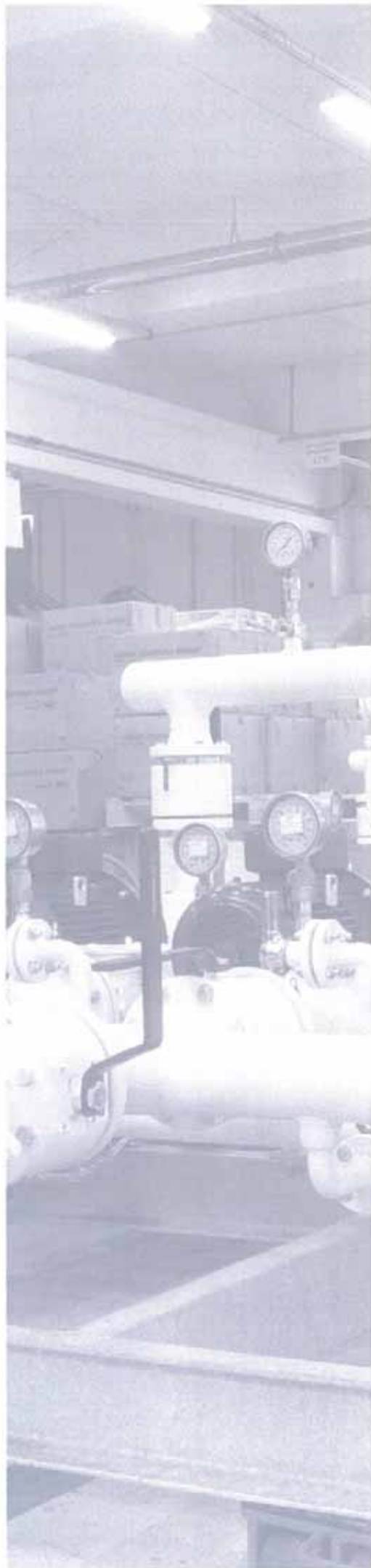
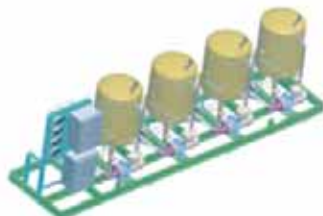
SAMPI/LCE addition plants can be provided with electropumps, meters (for product handling and measuring), tank farm for additive, in line injection system and electronics for amounts and addition percentage management.

REFERENCE PROJECTS:

2007
ADDITIVATION SKID (SK0135)
FALDUTO
ITALY



2007
ADDITIVATION SKID (SK0195)
KEY-ON ENTERPRISES
MACAO FUEL TERMINAL
HONG KONG





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