

VAE CONTROLS GROUP

Engineering Services

Tank Farm Building & Reconstruction

VAE
CONTROLS



VAE CONTROLS is recognized as an expert at truck loading/unloading technology and control systems - known and respected by major clients around the globe. VAE CONTROLS is ideally situated in the Czech Republic, Central Europe, to serve the international marketplace.



Although VAE main focus is loading equipment and additive dosing, they also offer a complete scope of engineering services. The company can offer the expertise and knowledge to provide the most cost effective combination of fuel loading and unloading, making sure that required throughput rates are achieved for the whole life of the plant.

Storage tanks, pumps, piping and mechanical engineering

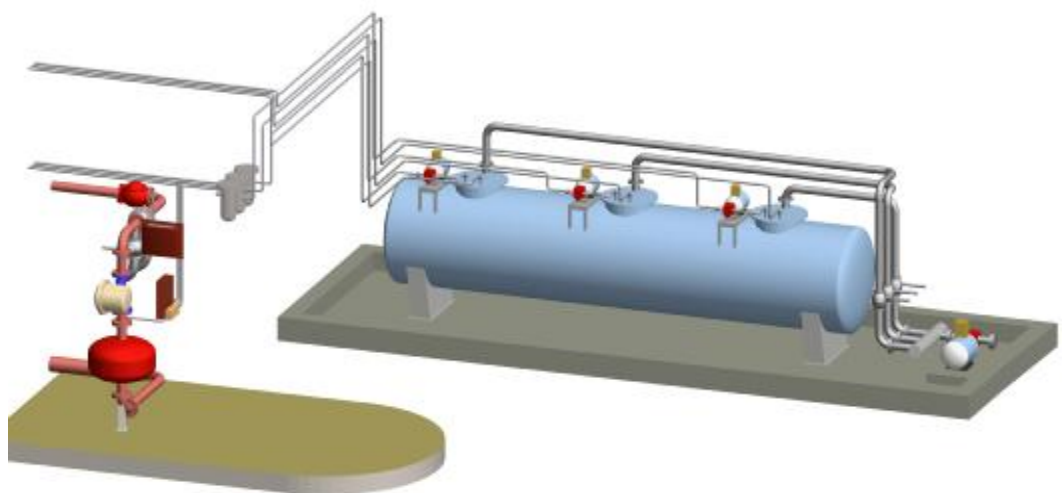
VAE is interested in aboveground storage tanks, underground storage tanks, pumping systems, process piping, tank and pipe insulation, fire protection systems, truck loading and unloading, tank car loading and unloading, pipelines and pumping stations and additive injection.

Electrical power, instrumentation and control systems

We provide electrical distribution, lightning protection, emergency power systems, uninterruptible power systems (UPS), motor control centers, area lighting, tank gauging/high level systems, cathodic protection, flow measuring equipment, pressure switches, temperature sensors, level controllers, vibration sensors, supervisory control/pump & valve control, grounding equipment, automated truck loading/ unloading control systems, proximity card identification systems, programmable logic controllers (PLC), SCADA systems, database systems.

VAE are additive dosing experts. They deliver system components as well as complete skid mounted systems.

Proper design of the additive system makes it suitable for additive dosing, coloring and for production of military Jet fuel



Additive system concept

CONTROL SYSTEMS AND TECHNOLOGY FOR PETROCHEMICAL AND WATER INDUSTRY AND POWER GENERATION

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VAE CONTROLS GROUP

Engineering Services

Tank Farm Building & Reconstruction

We offer full scope of the engineering services in the investment area:

Consulting

- Concept & feasibility studies
- Cost-benefit analysis
- Process automation concepts
- Construction schedule planning

Pre-Engineering

- Basic engineering
- Conceptual planning
- Evaluation of alternatives
- Negotiations with authorities
- Cost estimations
- Failure & safety analysis

Detailed Engineering & Documentation

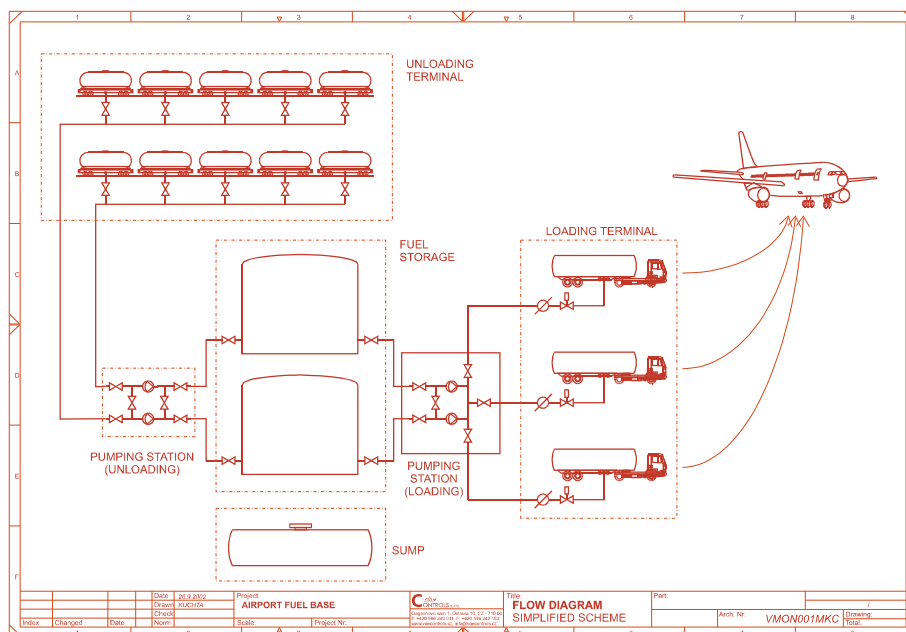
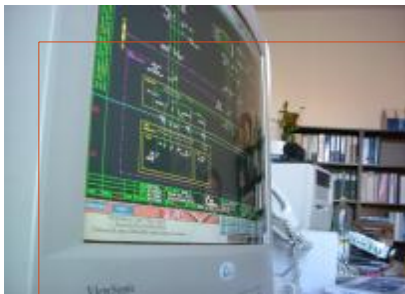
- P&I diagrams
- Detailed drawings
- Specifications
- Static calculations and analysis
- Simulations
- Hydraulic calculations
- Pressure-shock analysis
- Software programming
- Operations manuals
- Maintenance manuals
- Start-up-procedures
- Planning of construction site organization

Project Management & Supervision

- Provision of equipment
- Co-ordination
- Erection management
- Time scheduling

Testing, Commissioning & Start-up

- Factory acceptance testing
- Site acceptance testing
- Start-up management
- Callibration assistance



In addition to the road and railway terminals, VAE is interested in the jet fuel technology, both for civil and military purposes.

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