

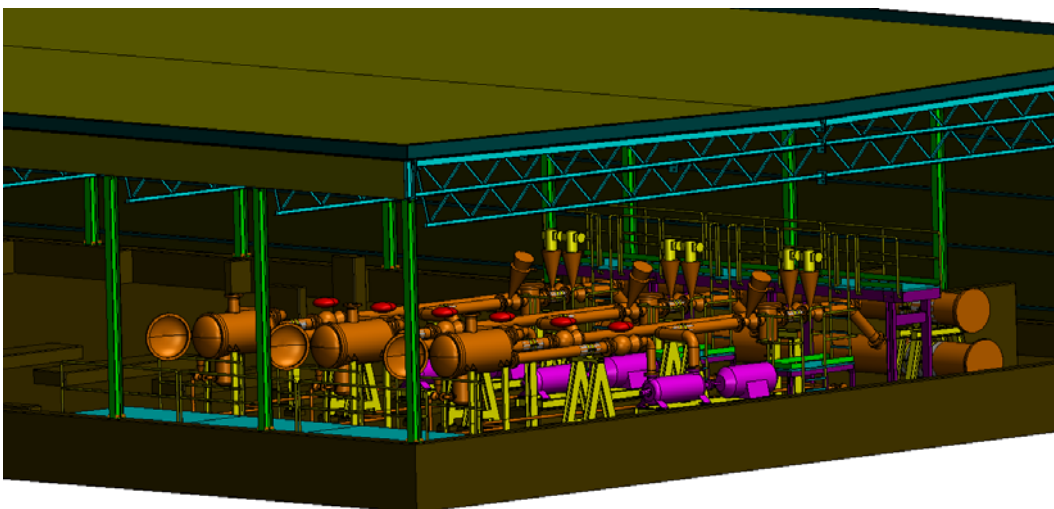
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|---------------------|--|-------------|
| project name | Extension of the existing hydrant pumping station in the tank farm at Munich Airport | |
| owner | Munich Airport Authority, Munich (Germany) | |
| location | Munich Airport, Munich (Germany) | |
| duration | start | june 2013 |
| | end | spring 2014 |



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The Munich airport undertakes an extended expansion program including the construction of a new terminal satellite building. To ensure prompt and effective aircraft service, aircraft fueling is provided by a hydrant fueling system. Fuel is pumped through buried pipelines from the airport tank farm to the distributed fuel hydrants on the airport's aprons.

For the additional aircraft positions, the existing aviation fuel pumping station is extended by three additional pump lines.



Fuel pumping station at Munich Airport, final design rendering

activities

Design for three additional pumping lines for pumping of hazardous material (Jet A1) at the Munich Airport tank farm.

The services include organizational measures to safeguard construction process without interruption of the normal fueling operation.

The professional services encompass

- preliminary (schematic) design and design development
 - final design
 - design for construction permit
 - specification writing.

wolf engineers + consultants provides engineering design for

- the mechanical and process pipe works, inside and outside the pumping station building
- the electrical power supply and necessary distribution systems
 - the supervisory and control data acquisition (SCADA)
- the civil works for distribution systems, shelters, steel and concrete constructions

technical description



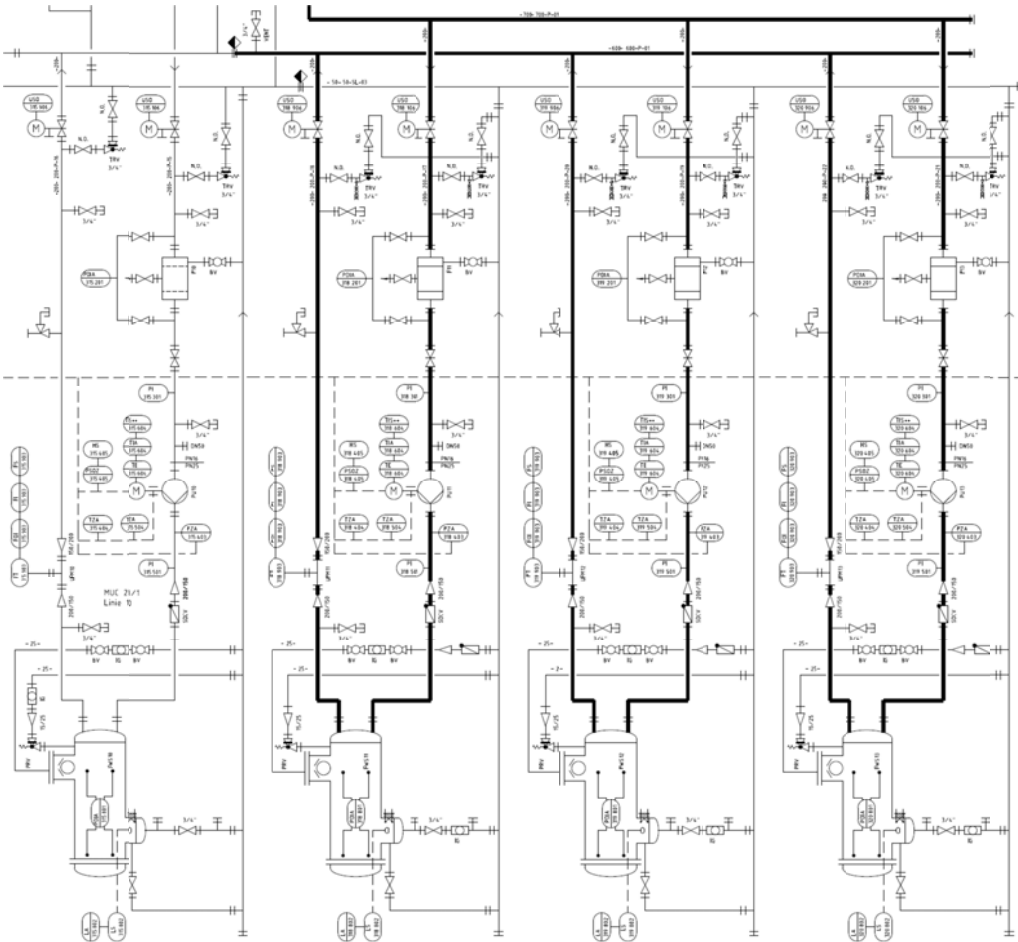
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medium aviation jet fuel (Jet A1) - water contaminant + explosive
 pressure class rating PN16 (235 psi) and PN25 (360 psi)
 pipe size DN 200 (NPS 8) up to DN 700 (NPS 28)
 welded steel pipe (EN ISO 3183)
 DN150 (NPS 6) and smaller
 welded stainless steel pipe (EN ISO 1127)
 total flow rate 3,000 m³/h (13,200 gpm)



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illustrations



Clip of piping and instrumentation diagram (P&ID) of aviation jet fuel pumping station at Munich airport



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