

Smoothing the Flow of Natural Gas in Europe

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Project Profile:

Gas storage facility on transit pipeline from Ukraine to Austria

Location	Slovakia: Gajary-Báden. North of Bratislava close to the Austrian border
Client	NAFTA a.s. Bratislava with headquarters in SK-90845 Gbely
Mechanical design	GasOil engineering a.s. in SK-05801 Poprad
Investment	SKK 2.9 billion ~ €100 million (\$142.8 million)
Installation Year	2010 (project started 2007)
FFS Customer	Techpetrol s.r.o. based in SK-05801 Poprad

From the international perspective, Slovakia plays an important role in the European gas industry. Transporting one-fifth of the natural gas consumed in western European countries, it is one of the largest natural gas transit countries. Before the end of its path across Slovakia, the transported natural gas reaches Záhorie, where Nafta Gbely stores the product at its Láb Underground Gas Storage Facility (Láb UGS).

The Láb UGS facility is a complex for natural gas storage, developed by converting the gas fields in the Láb, Suchohrad-Gajary, Jakubov and Malacky areas near the point where the gas transit transmission pipeline forks into its western and southern branches.

Three FE Petro Pumps were installed in the underground storage tanks that collect logging water (water mixed with methanol), methanol and gasoline. From here the mixtures run to the aboveground storage tanks. A collection truck then arrives to ecologically dispose of this content at a refining plant. During this process the first fraction of chemicals that are drawn off (foreshots) may be collected and transported back to an underground storage tank via 110/160 mm UPP pipework. An INCON TS-5000 Fuel Management System along with multiple sensors were installed to monitor the interstitial space as well.

Here, in one of the most important hubs of the European gas network, we see a range of Franklin products chosen for their long standing providence as being reliable, efficient, long lasting and both ecologically secure and environmentally safe.



General view of construction site in October 2010

4" double wall pipe risers in foreground next to road tanker pad.



4" double wall pipe risers in foreground next to road tanker pad prior to backfilling

Runs of over 100 metres pass under a service roadway.



4" double wall flanged termination

Side containment sump at road tanker discharge point.



6" double wall elbow and tee in close proximity

Fully fusion welded and waiting for connection to an aboveground fuel storage tank.



Close up of a 6" double wall elbow and tee

Such a Secondary Contained assembly is more easily made in polyethylene than in steel.



INCON TS5000D for level indication

Including pump monitoring, interstitial space monitoring via TSP-DIS and TSP-ULS liquid sensors.



13.250.160 preparation

10" x 6" secondary reducer undergoes preparation on site prior to assembly and fusion.



IST Submersible Turbine Pump mounted on fuel tank manway cover awaits connection

One of three Franklin FE Petro pumps used as slurry/sludge pumps inside USTs. All pumps are equipped with IFS Intake Filter Screens.

Franklin Fueling Systems Equipment:

Pump	FE Petro	IST 2 HP 3Ph	9 units
Fuel Management	INCON	TS5000D	2 units
Pipe	UPP	6" Double wall 250x160 mm	12 metres
		4" Double wall 160x110 mm	570 metres
		2" Double wall 75x63 mm	30 metres
		2" Single wall 63 mm	85 metres