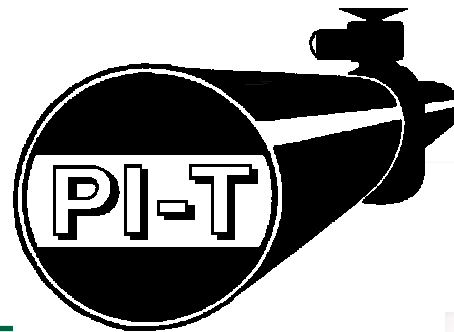
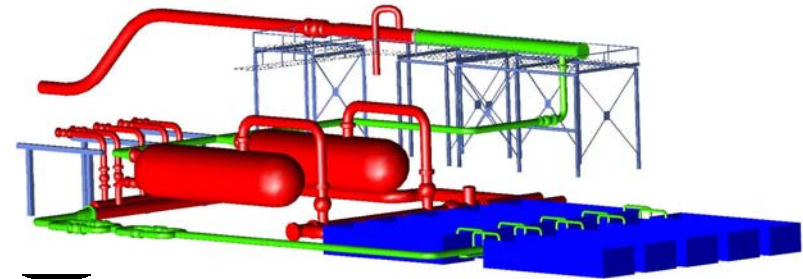


PIPELINE INGENIEUR-TEAM GMBH

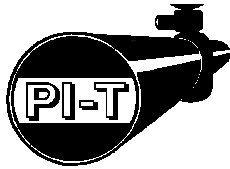
Engineering Design and Consulting



Realization Management

Authorities Engineering



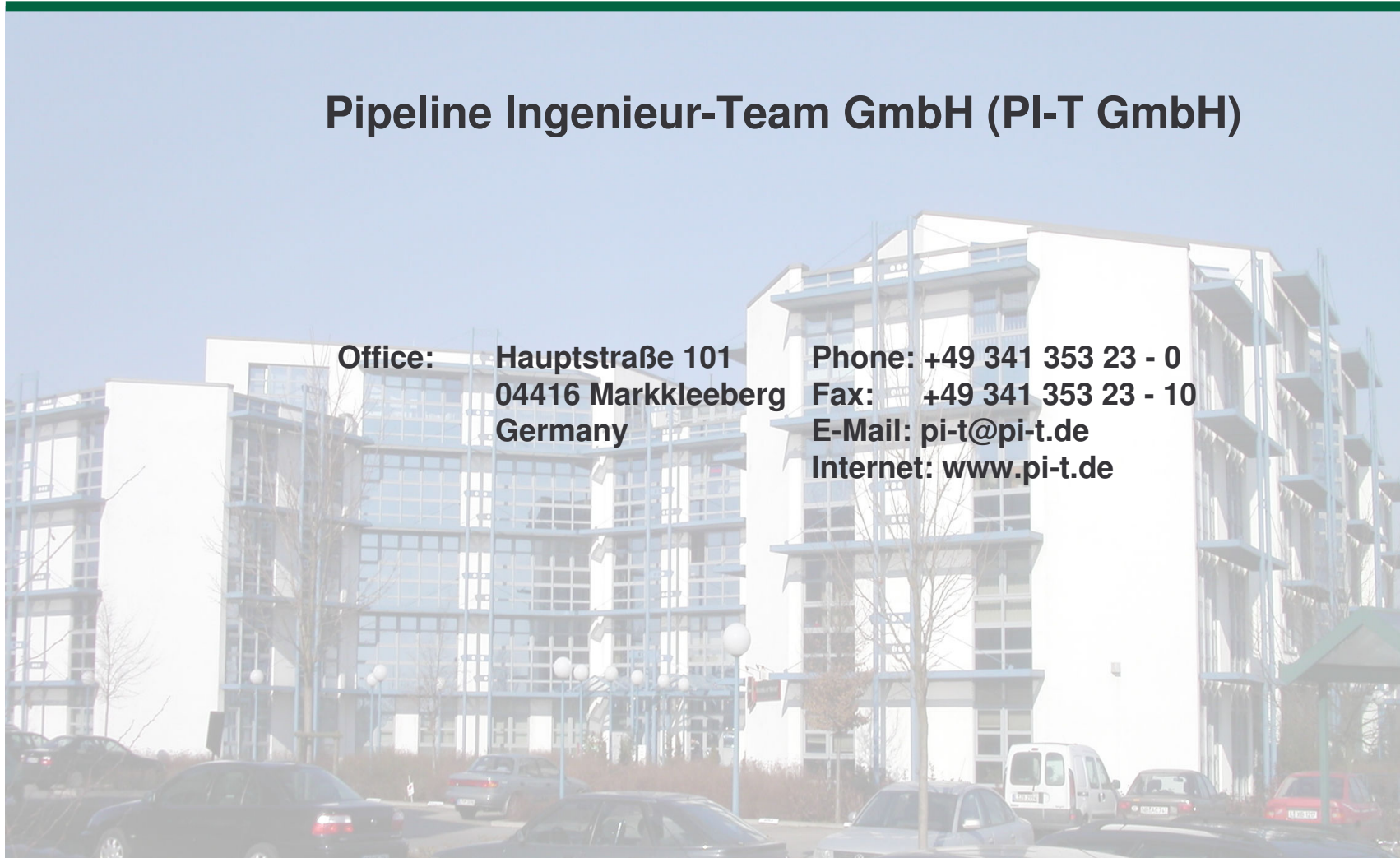


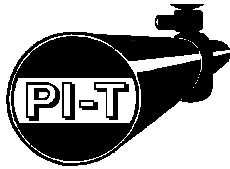
Pipeline Ingenieur-Team GmbH Contact

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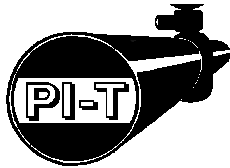




Pipeline Ingenieur-Team GmbH References

- 1974/75
- Ethylene cavern storage facilities in Teutschenthal (Preliminary planning, Project coordination, Construction supervision, Start-up, Further development)
 - Ethylene pipelines
Böhlen – cavern storage Teutschenthal, 50 km, 16"
Böhlen – Litvinov, 140 km, 10"
(Planning, Supervision, Start-up)
- 1987/88
- Gasoline pipeline between Leuna and Webau
(Preliminary and final planning, Construction supervision and inspection)





Pipeline Ingenieur-Team GmbH References

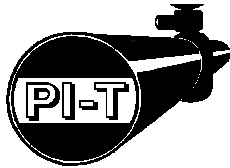
- 1991/92
- Gasoline pipeline (Naphtha) Zeitz-Böhlen (Preliminary and final planning, Processing of applications for construction and operation permits, Solicitation and selection of constructors, Construction supervision and assistance in start-up)

- 1991/95
- Storage tank revamping in the Spergau storage facilities (Preliminary planning, Project description, Compatibility design, Construction supervision and inspection)

- 1995–1998
- Renovation of the pump stations at Heidekrug, Petkus and Tornau for the Heinersdorf to Spergau crude oil pipelines 1 (20") and 2 (28") – 334 km

- Development of technology for the shutting down of pipelines
 - gasoline pipeline Leuna-Webau
 - gasoline pipeline Zeitz-Böhlen
 - crude oil pipelines Spergau-Zeitz
 - crude oil pipelines Spergau-Lützkendorf



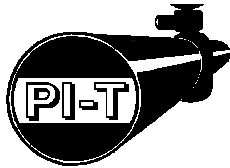


Pipeline Ingenieur-Team GmbH References

1991-1994

- valve station revamping of MVL GmbH Schwedt for the crude oil pipelines Schwedt-Spergau 1 and 2
- Improvement of the Boehlen to Litvinov ethylene pipeline due to the technical safety inspection (Technical planning, Civil engineering, Construction Supervision)





Pipeline Ingenieur-Team GmbH References

1996-1999

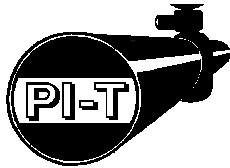
- Dow-pipeline systems
 - multi-purpose pipeline Rostock-Böhlen (RRB), 434 km, 16", 100 bar (Naphtha, Condensat, crude oil, liquid gas)
 - propylene pipeline (PBT), 50 km, 8", 64 bar
 - styrol pipeline (PBB), 50 km, 6", 64 bar
 - hydrogene pipeline (WBB), 50 km, 6", 64 bar,
 - brine pipelines (STB, SBT), 20 km 16", 64 bar
 - butadiene pipeline (PTB), 50 km, 6", 64 bar



pipe and cable protecting casing prepared for underpass crossing canal Mueritz-Elde

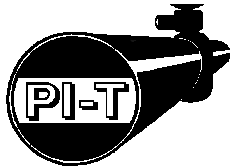


raw material pipeline Rostock-Boehlen under construction



Pipeline Ingenieur-Team GmbH References

- 1998 - 2001
- Development of the technological solution for batch-transport of pyrolysis gasoline through the Rostock-Boehlen pipeline (RRB)
 - Planning, building and commissioning of the Degussa Huels pipeline for fluid chlorine with crossing of river Rhine and laying along the river bank
 - Permission planning and accompanying building of fiber optic cables for the COLT Telecom
 - Adaptation / conversion of the Boehlen-Zeitz raw gasoline pipeline to the transportation of hydrogen
 - Planning and supervision of the reconversion of the Spergau-Zeitz crude oil pipeline
 - Acquisition of sites for antenna networks and transmitter towers in connection with the allocation of UMTS licences
- 2001-2002
- Stade-Teutschenthal pipeline (PST), 390 km, 10", 100 bar (ethylene and propylene)
 - Compilation of application documents for the regional planning
 - Procedure with environmental impact study (UVS) / FFH study
 - Permission planning for the PST
 - Basic Design for the PST
- 2002-2003
- Detail Design pipeline Nakhla-Jakhira, Libya (12", 46 km)



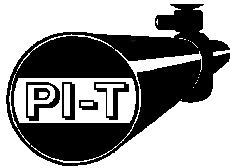
Pipeline Ingenieur-Team GmbH References

- 2003
 - Permission planning, basic design, detail design, construction supervision and procurement for pipeline crossing the Oder-Havel waterway (MVL GmbH Schwedt)
 - Rerouting Pipeline-Schwedt-Rostock (PCK Raffinerie GmbH)

- 2003-2004
 - Analysis of results of diagnostic pig runs, Pipelines Freundschaft 1 and 2
Preparation of maintenance plan (MVL GmbH Schwedt)

- 2004
 - Detail design replacement of old communication cable to fibre optic cable, Pipeline Schwedt Seefeld (PCK Raffinerie GmbH)
 - Study for increasing the throughput in Pipeline Freundschaft 1 and 2 (MVL GmbH Schwedt)
 - Parts of FEED crude oil pipeline, Republic of Sudan (1540km)
 - Review Head gas system Terminal Emden (Conoco Phillips Skandinavia AS)

- 2005
 - Feasibility study crude oil connecting pipe NWO-WRG Wilhelmshaven (Nord-West-Oelleitung GmbH)
 - basic design, permission planning and detail design inlet area natural gas terminal Emden (GasPort GmbH & Co. KG)



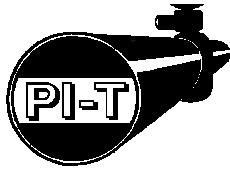
Pipeline Ingenieur-Team GmbH References

2005

- Detail design, construction supervision, Procurement for rerouting crude oil pipelines Heinersdorf – Spergau 1/2 to highway BAB A 143
- Controlling costs, Engineering and construction propylene pipeline Rotterdam – Antwerpen – Köln - Marl (EPDC) in order to government of the land Nordrhein – Westfalen for the german part (240 km, DN 200, PN 100)



▲ Crossing Rhein by Dormagen



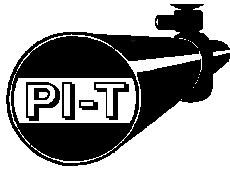
Pipeline Ingenieur-Team GmbH References

2005

- valve and pig station design, construction supervision gas pipe Haidach – Haiming in Austria (40 km, DN 900, PN 100) Rohölaufsuchungsgesellschaft Wien



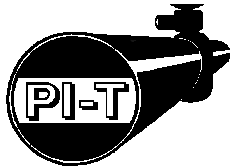
▲ Crossing Salzach



Pipeline Ingenieur-Team GmbH References

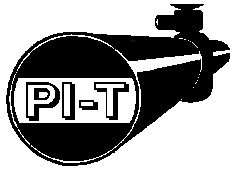
- 2005/2006
- permission planning, detail engineering, construction supervision to the high pressure gas pipe Unterkirnach - Vöhrenbach (EGT Triberg)





Pipeline Ingenieur-Team GmbH References

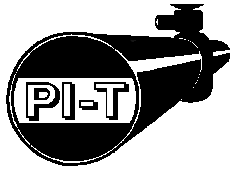
- 2006
- Planning and acquisition of right of way for a cable line in north germany
 - Permission planning for 3 underground water crossings of the ethylene pipeline Böhlen – Litvinov (Dow Olefinverbund GmbH)
 - Design and coordination for reconstruction crude oil pipelines Heinersdorf – Spergau 1 and 2 (MVL GmbH Schwedt)
 - technical design and construction supervision for the changing of valves in the fuel pipeline Schwedt-Seefeld (PCK Raffinerie GmbH)
 - Authorities and detail engineering for the replacement of the Saale river bridge from the crude oil pipelines Heinersdorf – Spergau 2 - DN 700, PN 70 (MVL GmbH Schwedt)
 - Feasibility study for a fuel pipeline between the Total Raffinerie Leuna and the airport Leipzig/Halle (Total Raffinerie Mitteldeutschland GmbH)



Pipeline Ingenieur-Team GmbH References

- 2006/2007 • procurement services and technical design in the natural gas terminal Emden for pigging operations in the Norpipe (GasPort GmbH & Co. KG)



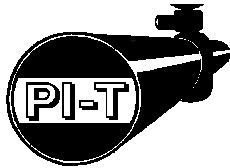


Pipeline Ingenieur-Team GmbH References

2007 • Pipeline routing for a natural gas pipeline in Abu Dhabi (ILF München)



- Feasibility study for a heatable pipeline from the unloading head to the tank farm NWO in Wilhelmshaven (NWO)
- Feasibility study for an oxygen pipeline from Salzgitter to Peine (Peiner Träger GmbH)

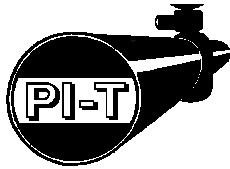


Pipeline Ingenieur-Team GmbH Auswahl von Referenzprojekten

- 2007/2008
- Design and realization management for a natural gas measurement and control station (max. 50.000 Nm³/h) at the location Neustadt of the bayernoil Raffinerie



- alignment and permission planning for the natural gas pipeline Mitteleuropäische Transversale (MET) from Sayda (Germany) to Eynatten (Belgium) through the federal states Saxony, Saxony -Anhalt und Thuringia (RWE)



Pipeline Ingenieur-Team GmbH Auswahl von Referenzprojekten

2008

- Pipeline routing, permission planning and detail engineering for the oxygen pipeline Salzgitter – Peine (Peiner Träger GmbH)
- Authorities and detail engineering for the rerouting of the crude oil pipeline Heinersdorf – Spergau 2 at the Saale river bridge area (MVL GmbH Schwedt)



- Feasibility study for an increase of capacity of the crude oil pipeline Rostock – Schwedt (PCK Raffinerie GmbH)
- Technical calculations for the “Ethylen-Pipeline Süd” zwischen Münchsmünster und Ludwigshafen (EPS)