

## Reference Object

### Mining / Mine Closure

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<i>Year</i>	<i>Titel - Tasks - Client</i>
2009	<p>Conceptual Design, Detail Design; Preparation Bidding Documents and Evaluation of Bids  Erection of a mechanical entrance to the <b>Rothschoenberger Adit in Freiberg, Mine „Reiche Zeche“</b>  <b>CLIENT:</b> Mining Authority of the Free State Saxony</p>
2004 - 2009	<p>Preliminary Design, Detail Design, Procurement, Supervision, Documentation  <b>Pumping Wells for the steering of the Flooding of the Mine Koenigstein</b>  Uranium Mining Site <b>Koenigstein</b> (Saxony)  <b>CLIENT:</b> WISMUT GmbH</p>
2007 - 2008	<p>Preliminary and Detail Design,  for Mine Water discharge System in <b>Shaft No. 277 in Zobes,</b>  <b>CLIENT:</b> WISMUT GmbH, PT – Alt</p>
2007 -2009	<p>Investigation, Study, Detail Design, Procurement, Supervision  <b>Water catchment drillings to the 40 – Lachter Level in Johanngeorgenstadt,</b>  <b>CLIENT:</b> WISMUT GmbH, PT- Alt</p>
2007 - 2008	<p>Detail Design, Supervision,  Closure of the Shaft No. 398 <b>by complete refilling with Cohesive filling material</b>  Uranium Mining Site <b>Koenigstein</b> (Saxony)  <b>CLIENT:</b> WISMUT GmbH</p>
2007 - 2008	<p>Detail Design for the  <b>Change of Shaft transportation devices and Closure of the Shaft 388 and No. 390 by complete refilling with Cohesive filling material</b>  Uranium Mining Site <b>Koenigstein</b> (Saxony)  <b>CLIENT:</b> WISMUT GmbH</p>
2007	<p>Detail Design, Procurement  Site Super Vision, Supervision and Documentation.  Long term stable <b>Closure of Shaft No. 56 (Minefield Johanngeorgenstadt)</b>  <b>CLIENT:</b> WISMUT GmbH, PT- Alt</p>

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<i>Year</i>	<i>Titel - Tasks - Client</i>
2004 - 2005	<p>Detail Design, Procurement            Site Super Vision, Supervision and Documentation.  <b>Long term stable Closure of Vertical Mine Working No. 3 (Minefield Bergen)</b>  <b>CLIENT:</b> WISMUT GmbH, PT- Alt</p>
2004 -2005	<p>Conceptual Design            for the Long term stable <b>Closure of the Mine workings (Shafts and Adits) Minefield Eleshnitsa, Southern Bulgaria</b>  <b>CLIENT:</b> Ministry for Regional Development, Republic Bulgaria</p>
2002 - 2004	<p>Detail Design, Procurement  <b>Reconstruction</b> of Assembly elements and Cable registers and for the new Installation of Pipelines (4 Parts) DN 300 in <b>Shaft No. 390</b>            Uranium Mining Site <b>Koenigstein</b> (Saxony)  <b>CLIENT:</b> WISMUT GmbH</p>
2004	<p>Detail Design            Assembly of a steel stand with Material- and passenger transportation device between Shaft sump and Surface level <b>Shaft No. 15 IIb (MINE SITE Aue)</b>            Uranium Mining Site Aue (Saxony)  <b>CLIENT:</b> WISMUT GmbH</p>
2003/2004	<p>Detail Design, Supervision, Documentation  <b>Closure of the Ventilation Boreholes No. 1 until 5 with cohesive filling material</b>            Uranium Mining Site <b>Koenigstein</b> (Saxony)  <b>CLIENT:</b> WISMUT GmbH</p>
2003	<p>Detail Design            for the <b>Installation of Safety devices near the Upper Level of the Scalley Shafts</b>  <b>(Minefield Hirschbach, Saarbruecken)</b>  <b>CLIENT:</b> WISUTEC GmbH</p>
2003	<p>Detail Design  <b>Reconstruction of the Marie- Louise- Adit (Berggiesshuebel) for the Reuse as remedial and Visitors mine.</b>  <b>CLIENT:</b> Health Resort Association Bad Gottleuba- Berggiesshuebel e.V.</p>

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<i>Year</i>	<i>Titel - Tasks - Client</i>
2003	<p>Detail Design            installation of a Pumping Pipeline in <b>Shaft No. 208 / 60-m-Level / UG 212</b>            Uranium Mining Site <b>Aue</b> (Saxony)  <b>CLIENT:</b> WISMUT GmbH</p>
2002	<p>Detail Design  <b>Rehabilitation / Change of Shaft Transportation Facilities in Shaft No. 208</b>            Uranium Mining Site <b>Aue</b> (Saxony)  <b>CLIENT:</b> WISMUT GmbH</p>
2000 - 2002	<p>Detail Design, Supervision, Documentation  <b>Closure of the Shaft No. 392 and 387 by complete refilling with Cohesive filling material</b>            Uranium Mining Site <b>Koenigstein</b> (Saxony)  <b>CLIENT:</b> WISMUT GmbH</p>
1995 - 2002	<p>Detail Design, Supervision, Documentation            Dam constructions against Mine water with high pressure potential  <b>Flooding Dams (FDD) and Flooding Dam Gates (FDT)</b>            Pressure up to 2,3 MPa            Uranium Mining Site <b>Koenigstein</b> (Saxony)  <b>CLIENT:</b> WISMUT GmbH</p>
2000	<p>Detail Design  <b>Vertical Mine investigation working No. 10</b>            New Installation of a <b>passenger</b> transportation Shaft (app. 85 m).            Structural steelwork from prefabricated section segments.            Uranium Mining Site <b>Freital</b> (Saxony)  <b>CLIENT:</b> WISMUT GmbH</p>
1999 - 2000	<p>Detail Design            for the partial Closure of <b>Shaft No. 371 (Minefield Hartenstein) with Concrete shear graft.</b>            Uranium Mining Site <b>Aue</b> (Saxony)  <b>CLIENT:</b> WISMUT GmbH</p>
1998	<p>Detail Design  <b>Decommissioning and Closure of Mine workings near the Embankments of the Open-Cast Mines Nochten and Welzow</b>  <b>CLIENT:</b> Lausitzer Braunkohle Aktiengesellschaft LAUBAG</p>

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<i>Year</i>	<i>Titel - Tasks - Client</i>
1997	<p>Detail Design</p> <p><b>Closure of the Entrances of the Vertical Investigation workings No. 12, 13, 70 and 646</b> with Reinforced concrete cover plate</p> <p>Uranium Mining Site <b>Ronneburg</b> (Thuringia)</p> <p><b>CLIENT:</b> WISMUT GmbH</p>
1996	<p>Detail Design</p> <p><b>Partial Closure of the Ventilation bore hole No. 5</b> with cohesive filling material</p> <p>Uranium Mining Site <b>Koenigstein</b> (Saxony)</p> <p><b>CLIENT:</b> WISMUT GmbH</p>
1996	<p>Detail Design</p> <p><b>Closure of the Entrances of the Shaft No 2</b> with Reinforced concrete cover plate (incl. degassing pipe)</p> <p>Uranium Mining Site <b>Dresden-Gittersee</b> (Saxony)</p> <p><b>CLIENT:</b> WISMUT GmbH</p>
1993 - 1996	<p>Detail Design</p> <p><b>Closure of the Shaft No. 372 and 373</b> by total refilling of Crushed stone and Waste Rock Material (incl. Reinforced concrete cover plate)</p> <p>Uranium Mining Site <b>Aue</b> (Saxony)</p> <p><b>CLIENT:</b> WISMUT GmbH</p>
1995	<p>Detail Design</p> <p><b>Closure of the Entrances of the Marien Shaft</b> in a depth of 10 m with Reinforced concrete cover plate (incl. degassing pipe)</p> <p>Uranium Mining Site <b>Dresden-Gittersee</b> (Saxony)</p> <p><b>CLIENT:</b> WISMUT GmbH</p>
1995	<p>Detail Design</p> <p><b>Closure of the Entrances of the Berger-Shaft</b> with Reinforced concrete cover plate</p> <p>Uranium Mining Site <b>Dresden-Gittersee</b> (Saxony)</p> <p><b>CLIENT:</b> WISMUT GmbH</p>
1994	<p>Detail Design</p> <p><b>Stabilization of the refilling Material of the Staple Shaft No. 2</b> near the 300 m Level, <b>Mine Field Paitzdorf</b></p> <p>Uranium Mining Site <b>Ronneburg</b> (Thuringia)</p> <p><b>CLIENT:</b> WISMUT GmbH</p>

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<i>Year</i>	<i>Titel - Tasks - Client</i>
1994	<p>Detail Design  <b>Shaft Bartensleben (Underground Deposit for Radioactive Waste Morsleben)</b>  <b>Change of Ventilation Tubes</b>  <b>CLIENT:</b> Deutsche Gesellschaft zum Bau and Betrieb von Endlagern fuer Abfallstoffe mbH (DBE)</p>
1994	<p>Detail Design  <b>Shaft Bartensleben (Underground Deposit for Radioactive Waste Morsleben)</b>  <b>Technical solution for Fire protection installations in a workshop on the 4<sup>th</sup> Level</b>  <b>CLIENT:</b> Deutsche Gesellschaft zum Bau and Betrieb von Endlagern fuer Abfallstoffe mbH (DBE)</p>
1994	<p>Detail Design  <b>Shaft Bartensleben (Underground Deposit for Radioactive Waste Morsleben)</b>  <b>Extension / Reconstruction of 4 Mine Workings, 4<sup>th</sup> Level</b>  <b>CLIENT:</b> Deutsche Gesellschaft zum Bau and Betrieb von Endlagern fuer Abfallstoffe mbH (DBE)</p>
1993	<p>Detail Design  <b>Change Conveyor in Shaft No. 403 - Level 600 m - 660 m</b>            Uranium Mining Site <b>Ronneburg</b> (Thuringia)  <b>CLIENT:</b> WISMUT GmbH</p>
1993	<p>Detail Design  <b>Change Conveyor in Shaft No. 415 - Level 600 m</b>            Uranium Mining Site <b>Ronneburg</b> (Thuringia)  <b>CLIENT:</b> WISMUT GmbH</p>
1993	<p>Detail Design  <b>Closure Ventilation bore hole 6</b> with cohesive filling material (using a Borehole in liner pipe)            Uranium Mining Site <b>Koenigstein</b> (Saxony)  <b>CLIENT:</b> WISMUT GmbH</p>
1992	<p>Detail Design  <b>Closure Shaft No. 402 and Shaft 3</b> with Crushed stone (with Reinforced concrete cover plate (incl. degassing pipe))            Uranium Mining Site <b>Dresden-Gittersee</b> (Saxony)  <b>CLIENT:</b> WISMUT GmbH</p>

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<i>Year</i>	<i>Titel - Tasks - Client</i>
1992	<p>Detail Design  <b>Closure of Vertical Ventilation Working No. 4</b> with Concrete shear graft            Uranium Mining Site <b>Aue</b> (Saxony)  <b>CLIENT:</b> WISMUT GmbH</p>
1992	<p>Detail Design  <b>Closure of Marien Shaft</b> with Crushed stone            Uranium Mining Site <b>Dresden-Gittersee</b> (Saxony)  <b>CLIENT:</b> WISMUT GmbH</p>
1992	<p>Study            Development of Technological scheme and Detail Design of <b>Closure of the Ventilation Boreholes No. 5 and 6</b>            Uranium Mining Site, <b>Koenigstein</b> (Saxony)  <b>CLIENT:</b> WISMUT GmbH,</p>
1992	<p>Study, Detail Design  <b>Closure Shaft 366</b>, with Concrete shear graft            Uranium Mining Site <b>Aue</b> (Saxony)  <b>CLIENT:</b> WISMUT GmbH</p>
1991	<p>Detail Design  <b>Closure Shaft 1 and Shaft 2</b> with Crushed stone            Uranium Mining Site <b>Dresden-Gittersee</b> (Saxony)  <b>CLIENT:</b> WISMUT GmbH</p>
1991	<p>Detail Design  <b>Closure Ventilation Shaft No. 1</b> with Crushed stone and Concrete shear graft            Uranium Mining Site <b>Aue</b> (Saxony)  <b>CLIENT:</b> WISMUT GmbH</p>
1991	<p>Study            Investigation of the mechanically and chemically Long Term Stability of <b>cohesive recycling Materials for refilling of Shafts and Underground Mine Workings</b>  <b>CLIENT:</b> WISMUT GmbH</p>
1991	<p>Study  <b>Closure of the Shafts in the Drosen mine site (No. 415, 403 and 416)</b>            Uranium Mining Site <b>Ronneburg</b> (Thuringia)  <b>CLIENT:</b> WISMUT GmbH</p>