



### Editorial

Dear readers,

May I send you all my good wishes for 2013 and wish you health and success for the year.

In this January 2013 issue of our Newsletter you can read my reports on the laying of a new pipeline for fire-fighting water, a new penstock pipeline and on the rehabilitation of old grey cast iron pipelines, all done with ductile iron pipes by trenchless or open trench techniques.

Have an enjoyable and stimulating read,  
Sincerely yours,



Raimund Moisa



### Installation by HDD in Sinntal-Oberzell

♦ Oberzell is one of twelve villages forming the municipality of Sinntal in the Main-Kinzig district in the German state of Hesse. A DN 100 water pipeline of grey cast iron has been replaced there by a DN 125 pipeline of ductile iron. The street known as "Zeil" was thoroughly renovated only six years ago so the crossing that was needed below it was made by the HDD technique. DN 125 ductile iron pipes with a cement mortar coating and the tried and tested BLS® joint system, with high-pressure locks, were pulled in for a length of 54 m. The joints were protected against being penetrated by the drilling fluid by a rubber sleeve and sheet metal cone. The pipeline is a total of 600 m long and transports the drinking water from the treatment plant to the service reservoir. The pipeline to be pulled in was pre-assembled in its entirety in the trench. A control cable was also pulled in along with the drinking water pipeline. The BFT Bohr- und Fräs-technik GmbH company of Waltershausen did the horizontal directional drilling as a sub-contractor to the Zehe GmbH company of Burkardroth-Premich in Bavaria.

### Small hydroelectric power station project in Northern Italy

♦ The Gosalda small hydroelectric power station (in the province of Belluno) has been built in the Belluno Dolomites National Park. The earth moving work for this project began in April 2012. The penstock pipeline is some 4 km long and was installed in sometimes very difficult terrain.

The pipes used were:

- 2.8 km of DN 600 ductile iron pipes with restrained BLS® push-in joints with

allowable operating pressures PFA of up to 58 bars,  
- 1.2 km of DN 500 ductile iron pipes with restrained VRS®-T push-in joints with a PFA = 10 bars.

The route of the pipeline runs mainly through very steep rocky terrain where the gradient is sometimes more than 100 %. In these latter sections the filling material, it was the same material as was excavated, had to be secured against

slipping by special sand barriers. With an operating pressure of 56 bars, the power station has an output of around 3.5 MW, generated by two six-jet vertical Pelton turbines. The pressure testing of the first 3 km long section has already been successfully completed. Ductile iron pipes comply with the stringent regulations of the nature protection authorities.

## Replacement of the DN 400 drinking water pipeline on the Kranichsteiner Straße in Darmstadt



◆ Over the past few years, there have been increasingly frequent fractures in a DN 300

grey cast iron drinking water pipeline dating from 1928 belonging to HEAG Süd-hessische Energie AG (HSE). To make the supply to the north-eastern districts of Darmstadt secure, it is going to be increased by a new 1,160 m long DN 400 drinking water transporting pipeline with a zinc and epoxy coating and the tried and tested TYTON SIT PLUS® push-in joint. The pipeline opens into a pressure raising station at which the pressure is increased from 4 bars to 7.5 bars. The size of the pipes has been increased here to DN 400. The Kranichsteiner Straße is one of the

busiest roads in Darmstadt and this is making the installation of the pipeline much more difficult: the narrow path followed by the route and fact that the Kranichsteiner Straße has to be completely blocked off at times means that everybody involved is required to show a great deal of consideration. HSE's engineering department is responsible for the planning and for carrying out the installation work. The ductile iron pipeline will be going into operation early in 2013. The replacement of a second section is already being planned and is scheduled for 2013.

## DN 400 pipeline for fire-fighting water for the Braun GmbH company of Kronberg

◆ Braun GmbH, the P&G Global Device Center and Braun Werk für Scherteile und Kunststoffveredlung have their headquarters in Kron-

berg, Taunus. A DN 400 pipeline for fire-fighting water is being laid around the grounds of the factories. This is creating a ring main some 900 m long which will also be supplying the sprinkler systems inside the buildings with fire-extinguishing water. Ductile iron pipes of the C 40/K 9 class with the tried and tested TYTON SIT PLUS® push-in joint and a zinc and epoxy external coating are being installed.



DN 100 pillar hydrants are provided every 90 m for the take-off of fire-fighting water. Given that there is an earth cover of 1.70 m, the pipeline trench is safely supported by shoring. Because there have been a number of fractures in the existing water pipeline, this is being replaced as well in the course of the installation of the pipeline for fire-fighting water. Some 200 m of DN 200 ductile iron drinking water pipes are being used for this. During

the installation of the pipeline, there must not be any interference or interruption with the factory traffic or with current production. This is why the trench is being re-filled with stone-free soil the moment a pipe has been installed. All the work is being done to agreed plans and absolute priority is being given to the Braun company's safety regulations.

### Dates for your diary

#### 07–08 February 2013

27. Oldenburger Rohrleitungsforum (27<sup>th</sup> Oldenburg Pipeline Symposium), Oldenburg

#### 23–26 April 2013

WASSER BERLIN INTERNATIONAL 2013, Berlin

#### 18–19 June 2013

10. Kanalbautage (10<sup>th</sup> Sewer Installation Day), Bad Soden

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