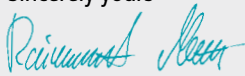




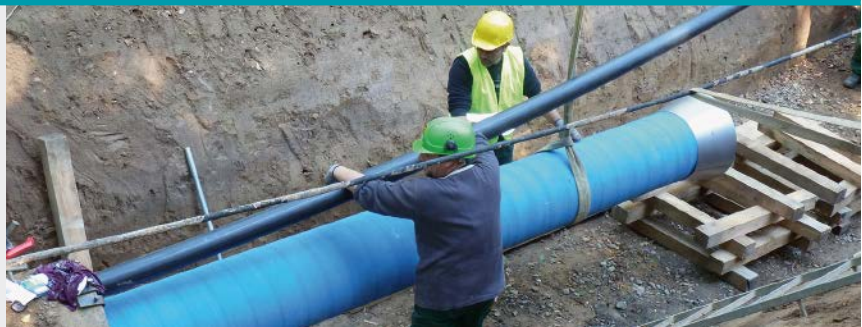
Editorial

Dear Readers,
 In this October 2015 issue of the Newsletter I am reporting on the renovation of a drinking water pipeline using the pipe relining technique, the installation of a new snowmaking system in the Austrian municipality of Saalbach-Hinterglemm and the installation of a new drinking water pipeline south of Berlin. A further report looks at the relocation of a water pipeline. Restrained push-in joints were used in all these projects.

Have an enjoyable and stimulating read
 Sincerely yours



Raimund Moisa



Pipe relining in Hattersheim

◆ NRM Netzdienste Rhein-Main GmbH, Frankfurt am Main have replaced the 8th stage of the main water pipeline from the waterworks at Hattersheim right through to Frankfurt am Main. As with the previous stages of renewal, pipes in ductile cast iron were installed. The old DN 700 grey cast iron pipeline needed to be renovated because of interruptions in supply and lower water consumption levels. In total around 1.1 km DN 400, K 9 ductile iron pipes with BLS® restrained push-in joints and cement mortar coating were pulled through the existing old pipeline which dates back to 1927. A directional drilling machine with a traction force of 45 t was used for the pulling, as is used with the HDD process. The use of this directional drill rig with 6.10 m long rods and the length of stroke associated with this meant that the assembly time per pipe could be shortened. On the longest pulling section of 590 m this amounted to approximately 12 minutes per pipe. Meanwhile around 7.2 km of the old drinking water pipeline is being replaced. The operating pressure of the new pipeline is around 10 bar. The installation took just 2 ½ months and was thus two weeks shorter than planned. All those involved in the construction of the new drinking water pipeline were happy with the problem-free installation of the ductile iron pipes. A further renovation stage is being planned for 2016.

Snowmaking in the skiing resort of Saalbach-Hinterglemm

◆ Until the 2014/15 winter season, the Schönleiten piste in the ski resort of Saalbach-Hinterglemm was the last valley run not yet to be equipped with

“technical snow”. Therefore, in 2014 the Saalbach cableway company decided to construct a new snowmaking system and a new storage reservoir. The Polten storage reservoir has a capacity of 83,700 m³. Ductile iron pipes were used for the snow making pipelines. Back in 2014 around 1.5 km of DN 250, PN 40 ductile iron pipes were installed, with a further 1.5 km following in 2015 in nominal size DN 200, PN 64. The ductile iron pipes with cement mor-

tar lining and PUR Longlife coating and with the proven VRS®-T restrained push-in joint system ensured easy and rapid assembly. This material guarantees many years of reliable operation of the snowmaking system. Thus the Saalbach-Hinterglemm ski resort has taken a further step in the direction of better quality and guaranteed snow.



New lifeline secures drinking water supply

◆ To the South of Berlin between the villages of Groß Schulzendorf and Jühnsdorf, along the L 792 road, the installation of a new drinking water transport pipeline was necessary. The first stage from the waterworks at Groß Schulzendorf includes 1,920 m of DN 600. The water supply and sewage disposal association for the region of Ludwigsfelde, together with the water supply and sewage disposal association for Blankenfelde-Mahlow commissioned an engineering company in Ludwigsfelde with the planning of this project. After comparing the alternatives and checking the costs, ductile iron pipes of pressure class C 40 with restrained TYTON SIT PLUS®

push-in joints (BRS® system, friction-locking joints) were selected. The pipes are zinc-coated on the outside and provided with a blue epoxy finishing layer. Despite high groundwater levels, the head-on assembly of the ductile iron pipes advanced quickly ensuring therefore good progress of the work. In what was formerly an area subject to flooding with unstable soil conditions it was decided to use ductile iron pipes with BLS® push-in joints (positive-locking joints). In order to transfer the longitudinal forces from pipe to pipe, locking segments in ductile cast iron were used. With the BLS® system it is possible to compensate for any unfore-



seen subsidence and the associated variations in length with confidence. The assembly of the BLS® system is simple and scarcely takes any longer than the BRS® system.

Relocation of a drinking water pipeline in the Spessart mountains

“The building project of the century” is what, in summer 2014, the regional press called the 8 km long major construction site of Deutsche Bahn between Laufach/Hain and Heigenbrücken, in which the 160 year-old Schwarzkopf tunnel was replaced with a new tunnel.

Termine

26–28 October 2015

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Essen

13–15 January 2016

InfraTech 2016,
Essen

11–12 February 2016

30th Oldenburg Pipeline Forum,
Oldenburg

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◆ In the context of the construction work a roughly 300 m long DN 300 drinking water pipeline in the Schwarzbach valley had to be relocated. The water supply association for the district of Aschafftal in Goldbach selected the new route for the drinking water pipeline so that a 160 m long section could be laid using the open trench technique. For this section, DN 300, K 9, PN 10 ductile iron pipes with

BLS® restrained push-in joints and cement mortar coating were used. A further 130 m of pre-insulated BLS® pipes were suspended from the ceiling of an open culvert. These particular ductile iron pipes are insulated with CFC-free hard polyurethane (PUR) foam. In turn, this insulation is covered with a PE casing pipe.

Thanks to the best conditions for delivery and installation, the relocation of the drinking water pipeline was able to be completed within the scheduled time of eight weeks.



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