

ITT Flygt Ireland Works with Mine to Solve Pumping Problems

ITT Flygt Ireland has worked with mining and mineral exploration company, Galmoy Mines Limited, to solve a problem involving the pumping of water from the bottom of its Galmoy Zinc Mine at a rate of between 40 and 100 liters per second over a distance of 300 meters. The Galmoy Zinc Mine via Thurles in County Kilkenny has deposits which lie in a northeast striking belt of Lower Carboniferous carbonates, mainly limestones. The scope of work Flygt undertook was to design a system to solve Galmoy Mines' pumping problem in the G and K production areas of the mine.

After a tour of the mine and attendance at various engineering meetings, Galmoy Mines agreed to install Flygt's Tandem Pump System, which involved 1 No dual pump station placed in the G and K production area. This incorporates 2 x BS2250 HT / 54Kw pumps with control panels complete with variable speed drives and controlled via an ultrasonic level controller.

In addition, Flygt installed at 100 meter distances two more BS2250HT / 54Kw pumps in tandem, also with control panels with variable speed drives. Mindful of the pumping laws applying to tandem pumping, Flygt used the 4-20 milli-amp signal from the level controller as the sequence start/stopping of the tandem pumps.

In consultation with the mining industry, Flygt Ireland concurred with Galmoy Mines' decision to install an 8" Yelomine pipe line, which will dramatically reduce the pipe losses.