



Bamford Water Treatment Works

300kVA Riello MHT IP54 Enclosure

Situated in the Peak District Bamford Water Treatment Works is Severn Trent Water's third largest treatment works, supplying drinking water to Derby, Nottingham and Leicester.

Taking its supply from Ladybower, Derwent and Howden reservoirs, the incoming water is blended and treated in the works before feeding into the Derwent Valley Aqueducts.

MWH are global providers of wet infrastructure, planning, design, construction and management services projects and are responsible for the design and whole works of a £34m scheme to update the Bamford WTW to meet future raw water quality challenges.

Harland Simon already had existing UPS systems on the Bamford site supporting various critical processes so was asked to provide an extension to backup the increased power required for the new lime plant which will control pH throughout treatment processes.



Harland Simon supplied their largest **Harland ProtectUPS® - Industrial** system to date incorporating a standard Riello 300kVA/60 minutes MHT AC UPS with fans and filters into an IP54 steel enclosure.



- » Water grade UPS built to WIMES 3.07
- » 300kVA AC UPS
- » 60 minute autonomy
- » 10 year life batteries
- » Custom build IP54 steel enclosures

In addition to the UPS cabinet 5 x battery cabinets with 10 year life batteries were provided and the system was designed and manufactured for future expansion of 4 x cabinets.

Dan Conroy, Harland Simon Sales Manager, said *"this has been a very exciting project to work on as the company met the demands for more in depth design and test processes required to assess the suitability to integrate a huge and heavy UPS resulting in transporting a 2 tonne unit to site."*

Severn Trent Water now has peace of mind that in the event of mains power failure a Harland Simon UPS system will support the Bamford plant ensuring water quality for the future with a maximum potential output of 202Ml/day.

"Harland Simon are seen as being the UK's expert in their field and were asked to provide numerous large UPS systems in various parts of the plant. To ensure full reliability a 24hr support package was also negotiated and this has proved itself to be a great way to gain confidence in the system and has already provided support on several recent critical power failures. I would have no hesitation on recommending their services to other major critical supply system providers. Harland Simon UPS services are switched on and always on", Rob Kirk, ST Water North Derbyshire Senior Technician Maintenance.

Specialist lifting gear and transportation of system was needed as seen above leaving the MK factory

