

# Tarong Power Station

## Fast-track water supply pipeline

tyco  
Water

Seasonal droughts are one of the problems faced by Queensland's farming and rural communities, but Tarong power station is equally reliant on water in order to generate about 40% of Queensland's electricity needs. So when storage at nearby Boondooma dam dropped to 20% of full capacity, it was essential to find an alternative source if the power station was to continue operating.

## The Solution

Station owners and operators AUSTA quickly identified an alternative source in the upper areas of the Wivenhoe Dam. To connect with the source required the construction of a new 78km 900mm diameter pipeline to deliver the 880 l/s (76 MI/day) needed at Tarong, operating at pressures up to 4.4 MPa.

Due to the critical nature of the pipeline, the system specified was Tyco Water's mild steel cement-lined pipe, with the unique SINTAJOINT® rubber ring jointing system.



## The Product

Tyco Water - Steel Pipeline Systems supplied SINTAJOINT pipes in 13.4m lengths. These extra long pipes saved the project contractor Leightons considerable time in construction, reducing the number of joints to be made in the field by approximately 12%, or about 700 joints in a project of this size.

Special fittings were prefabricated to maximise the advantage of the SINTAJOINT rubber ring joint system and thus minimise construction time on-site. All pipes, fittings and specials were produced at Tyco Water's Steel Pipeline Systems facility at Brisbane, Australia.

Wherever possible, all pipeline components were standardised, so that even on a project of this size and complexity, the range of different fitting types was kept to a minimum.

## The Result

With such a fast-track project, Tyco Water Steel Pipeline Systems were able to work closely with AUSTA Electric and Leightons through all stages of the scheme. This partnership ensured that the tight schedule was achieved, with security of water supply for Tarong Power Station and the energy needs of the state of Queensland.