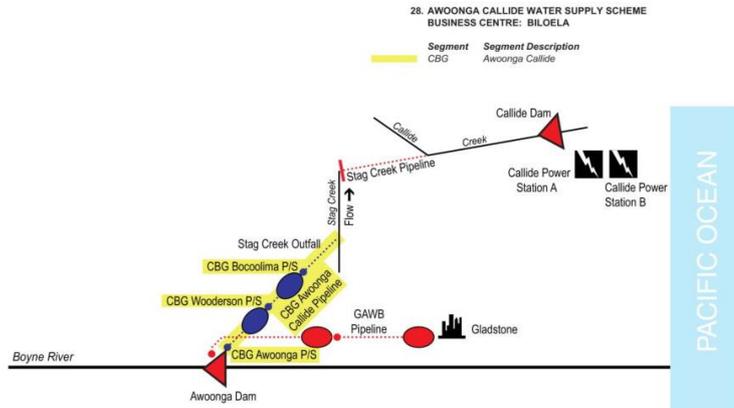


Awoonga Callide Augumentation

33km Duplication of the Awoonga-Callide Pipeline



Project Need

The Awoonga Callide Pipeline is a 54km pipeline infrastructure that is part of the 'Awoonga Callide Water Supply Scheme' operated by SunWater. The raw water that flows through this pipeline is used to power the Callide Power Station, which necessitated an upgrade of the pipeline to fulfil the required extended capacity of 27,500 megalitres per annum from the previous 14,900 megalitres per annum. The upgrade entailed an expense of \$37 million dollars on infrastructure including a 33km duplication of the original Awoonga Callide pipeline and in addition eight additional pumps and motor units.

Solution

This augmentation project was executed while the existing pipeline continued its operations in carrying raw water to keep the power stations running. Crucial elements of this projected included the duplicated section to obtain the same measurements as the original pipeline to ensure consistency and provide ease in the interchangeability of fittings and other features. Steel Mains was once again selected by SunWater to deliver this project by manufacturing and supplying the entire duplication pipeline. The 33km electrically cathodic protected Sintakote® pipeline was manufactured with both welded steel Spherical Slip Joints and Sintajoint® Steel Rubber Ring Joints.

The choice of Sintajoint allowed for an effective and efficient cross – country pipelaying procedure whereas Spherical Slip in Joints were best suited for weld restraint in small sections that required longitudinal thrust restraint.

Achievements

Steel Mains Sintajoint rubber ring joints simplified the pipelaying process by providing a highly cost effective long distance pipeline construction system with increased safety levels - all of which facilitated in completing this project on time and on budget. The pipeline will now secure the increased water supplies required to produce sufficient electricity for the national grid. Steel Mains Sintakote Pipeline System together with our contract delivery experience ensured SunWater received a high value proposition asset which will provide considerable value to SunWater over the pipeline's 100 year expected lifetime.

Project: Awoonga-Callide Augmentation

Principal: SunWater

Location: Queensland

Completion: 2000

Supplied: 33km of 700OD Sintajoint® Rubber Ring Joint (RRJ) & Spherical Slip Joint (SSJ) Pipe & Fittings