

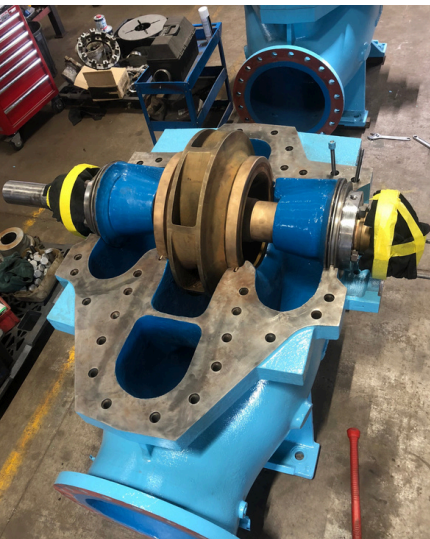


## Major Asset Split Case Pump Overhaul

### OVERVIEW

Nepean Dam, situated on Avon Dam Road near Bargo in New South Wales, is a key component of the Upper Nepean Scheme, which supplies water to Sydney and surrounding regions. This infrastructure plays a vital role in providing potable water to the Macarthur and Illawarra regions, as well as metropolitan Sydney. Integrity Pumps and Engineering were entrusted to undertake a large-scale pump overhaul project on three of the Nepean Dam's critical assets. This project involved the removal, overhaul, and reinstallation of the axial split case pumps.

The team at Integrity thoroughly stripped and assessed the pumps, providing a detailed condition assessment report. The rebuild quotations for each pump included laser alignment, on-site commissioning, and return installation. Due to the critical nature of the assets and the tight deadlines involved, the project attracted significant attention from various stakeholders.





## Nepean Dam Case Study

### Objectives

The scope included the stripping and inspection of the pumps, along with a detailed condition assessment report and rebuild quotations for each pump. Post rebuild the Integrity team managed the return installation, laser alignment and on-site commissioning. All works were completed as per the extensive reporting requirements along with periodic witness checks by the end user.

### Challenges

Given the high profile nature of this project, our client required substantial amounts of OHS documentation for the site work, along with detailed assessment and testing documentation for each pump. There was also a small window of time allowed for all three pumps to be offline for the overhauls.

### Solutions

With some precise planning and efficient communication with the client, the team at Integrity undertook the project with ease. With the three pumps lined up in the workshop they were worked on in parallel. We were able to exceed our client's expectations around testing, quality, reporting, turnaround time, delivery and installation. Feedback received from our clients post overhaul has confirmed the split case pumps have been running well and not missed a beat.

