

Naramata Water System – Generator Project

Historically, the lack of backup power for the Naramata Water system has been a noted deficiency since the Regional District contracted AECOM to complete an assessment of the system in 2005. Following in the recommendations from the report, the RDOS begin planning and budgeting for the installation of backup power at key sites, and in 2015 the Board of Directors approved the project as part of the 2016 Naramata Water System capital budget.

Reliable backup power is an important component of a water system, particularly in rural communities where wildfires have the potential to compromise power lines, including transmission lines which are major pieces of electrical infrastructure that require lengthy repairs, if damaged. Water systems lacking backup power are generally understood to not have adequate firefighting capacity.

Once budget approval was received, the engineering department released a Request for Proposals (RFP) to contract a consultant to complete a design for the installation of the 3 new generators for the; Naramata Water Treatment Plant, Raw Water Pump Station, and Juniper Booster Station respectively.

AECOM was the engineering firm chosen as to provide design and engineering services for the project and completed design for a; 1000 Kilowatt (kW) Generator for the Naramata Water Treatment Plant, 600 kW Generator for the Raw Water Pump Station, and 100 kW Generator for the Juniper Booster Station. The design was then tendered and awarded to Houle Electric Ltd. who started construction in 2016 and completed the project in mid-2017.

Figure 1. Raw water pump station Generator



Figure 2 Juniper Booster Generator



Figure 3 McKay WTP Generator



- 20050513 Associated Engineering, [Naramata Water Supply Improvements Pre-Design Report](#), *click link to view.*