

PROJECT PROFILE



After failure of the Conestogo Hydro Dam, the GRCA (Grand River Conservation Authority) entered into the monumental task of replacing the existing turbine, rebuilding and rewinding the existing generator, modernizing the controls and monitoring system and decommissioning of the existing bypass system and implementation of the new gate operating system. Resource Industrial Group Inc. was contracted to provide the installation and millwrighting services segment of the new replacement turbine and components. The key, high level objectives were to implement the task of properly installing all of the hydro plant components all the while keeping at the forefront, worker safety. We were mindful this project demanded precision, expert planning and quality workmanship to fulfill our customer's expectation of a

project lifespan of 25 years or more. RIG's certified Millwrights and riggers were up to the task! The staging of the component delivery was key in such a confined space, especially given the weight of the components, one of which was 6 tons. The access to the turbine room consisted of a 6 ft x 6 ft concrete shaft that was 52 feet below the road deck and then a narrow horizontal shaft leading to the turbine room of only 7 ft x 5 1/2 ft. Special challenges are presented when working in such a small area but RIG's group of certified riggers and fitters are all fully trained in Confined Space Awareness. Good planning, proper equipment and ventilation, and knowledge of all the factors of working in a confined space led to a successful installation.

CUSTOMER

Shand Dam

PROJECT

Turbine Replacement

LOCATION

Conestoga, On



Resource Industrial Group.

