Hunter Creek

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Canada – Hunter Creek Hydro LP signed a contract with ANDRITZ HYDRO for the delivery of equipment for the Hunter Creek hydropower plant, located close to the town of Hope in British Columbia in June 2016.

ANDRITZ HYDRO's contractual scope includes design, manufacturing, installation and commissioning of one turbine inlet butterfly valve with external by-pass system and one six-jet vertical Pelton turbine. In addition, one vertical synchronous generator with self-lubricating water-cooled sleeve bearings, one high pressure unit for actuating the turbine nozzles/deflector servomotor, turbine inlet and bypass valve, as well as a cooling system for the generator bearings, form part of the order.

A special feature of the project is the guaranteed hot re-synchronization operation mode using deflectors in the engaged (in front of jet) position for a relatively long period of time. This design, which enables re-synchronization within seconds, helps to bring the unit back on-line after a grid fault without flow reduction and gives the customer the opportunity to generate power again without running a mandatory multiple-hour ramping process.

The project is expected to start commercial operation in December 2017.

TECHNICAL DATA	
Output	1 × 11.2 MW
Voltage	13.8 kV
Head	323.2 m
Speed	720 rpm
Runner diameter	980 mm

Renace 4

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Guatemala – ANDRITZ HYDRO received an order from Cobra Infraestructuras Hidráulicas, S.A. for the supply, transport, erection, and commissioning of two 28 MW Pelton turbines for the Renace 4 hydropower plant In March 2016. The project, located on the lower Canlich River, is part of the Renace Hydroelectric Complex, which – together with Renace 1, 2 and 3 – will become the largest hydroelectric complex in Guatemala, with a total installed capacity of 300 MW.

The contractual scope for ANDRITZ HYDRO includes two six-nozzle, vertical shaft turbines, hydraulic power units, a cooling water system, penstock connection pipes, main inlet valves, and generators. The manufacturing and pre-assembly of the main turbine components will be done in ANDRITZ HYDRO's workshop in Spain. Start of commercial operations is scheduled for spring 2018.

After the successful execution of previous orders for the 120 MW HPP Renace 2 in 2012 and 66 MW Renace 3 in 2014, this new order further strengthens ANDRITZ HYDRO's strong position in the Guatemalan hydropower market.

TECHNICAL DATA	
Output	2 × 28 MW
Head	489.50 m
Speed	720 rpm
Runner diameter	1,250 mm