

POWER GENERATION

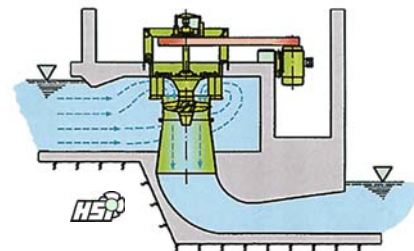
RACO Electro cylinder for the guide vane pitch adjustment device in a water turbine!

The power station is equipped with two kaplan type turbines to generate appr. 110 kW power out put. For the efficiency of such a turbine configuration the rotor and the guide vane (stator blade) have to be adjusted in a optimal position continuously, depending on the mass flow intake. For that reason RACO has provided their intelligent RACO positioning linear actuator, consisting out of the positioning motor, gear box and push pull unit with precision trapezoidal screw. That combination with the integrated motor controller unit (frequency converter & absolute position sensor) realize nearly servo character, controlled by a 4-20 mA analogue signal via customers PLC or the main control system.

The adaption and commissioning of both RACO actuators to the system at side was quiet easy, cause no further control equipment or even a control cabinet have to be installed. All RACO-positioning-actuators come pre configured from our work shop acc. customers parameter list. So they are all ready prepared for operation by plug and move. A parameter setting for the programmable eeprom can be done by a PC with the „RACO configurator software“, which is based on windows layout, via cable interface.

Benefits of the RACO Electrocyliner®:

- clean & environment-friendly drive solution
- strong design with long lasting estimated life time
- accurate continuous positioning and repeatability
- direct controlled drive unit by 4-20 mA signal
- easy installation and low maintenance cost



Bildquelle: HSI Hydro Engineering GmbH



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