



## ENERGY AND AUTOMATION TECHNOLOGY FOR HYDROPOWER PLANTS

## PRODUCTS



# F.EE – DIGITAL TURBINE CONTROL (DTC)

## **OPTIMALE INTEGRATION**

state-of-the-art operating and control concepts



## **INCREASE OF OUTPUT BY:**

- optimal control structure and software modules
- reduction of maintenance and service assignments on site

## INTERFACES

communication of the DTC is possible via all common standard interfaces



## **COST REDUCTION:**

- digital process signal activation
- remote diagnostics and parameterization
- standard industrial hardware components
- graphic user interface parametrizable



## S7 PLATFORM

- The F.EE-DTC was optimized to Simatic S7 hard and standard software components during the last 20 years of constant development.
- Simatic S7 hardware which has already been adopted worldwide is respected everywhere as industry standard.
- Mostly the F.EE-DTC is integrated in the machine automatic control.



Image: main control valve



# BENEFIT FROM MORE THAN 25 YEARS OF EXPERIENCE AND MANY REALIZED PROJECTS.

## **A0 PHI OPTIMIZATION**

Control device-blade wheel relation-values can be determined and displayed over any user-defined time in accordance with different operating points. These optimized values can then be transferred to the automatic of the F.EE-DTR after plausibility check.

## CONCEPT

- speed monitoring by tooth wheel and proximity switch
- graphic software interface
- maintenance and service access
- modular and flexible control structure adjustable to plant
- remote control and fault analysis allow a reliable operation of unstaffed power plants

### STRUCTURE





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