F.EE – DIGITAL TURBINE CONTROL (DTC)

OPTIMALE INTEGRATION
- state-of-the-art operating and control concepts

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

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

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.

AØ 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

process controller

limiting controller

control interventions

actuator positioning

number of revolutions level flow performance surge

max. arithmetic difference frequency support cavitation protection min. / max. power protection min. / max. opening

setpoint test operation

diffuser impeller