

# Success Story

Instrumentation and control design from a single source: Emerson reaches more efficiency by synchronization of control system and process automation data



In Europe, the operators usually want to get their plants from only one source. For plant construction companies this means that in addition to the automation they are supposed to deliver also the complete instrumentation including the cabling. For this purpose a gigantic data volume must be created and managed. Different subcontractors and incompatible data multiply the expenditure. Likewise the enormous safety requirements make central project planning reasonable.



## Integrated engineering

Power & Water Solutions division of Emerson Process Management entity of the US-American Emerson Electric Corporation, met this requirement by a partnership with AUCOTEC. Thus in addition to the control and automation technology, Emerson can offer a service package including the electrical engineering that extends down to the wiring information for the cabinets. Emerson is the market leader for developing automation solutions for the power generation, water treatment and waste water industries.

Aucotec's software system Engineering Base (EB) for complete process automation has been integrated to the Emerson control system 'Ovation', through a new product named Ovation Documentation Builder. In the power plant sector, the bandwidth of EB extends from the flow diagram via the documentation

to the complete automation engineering job. In a contract, an agreement was reached to develop and distribute Ovation Documentation Builder

## Step by step consistent

The combination results in an enormous saving of time, for one thing because duplicate maintenance of up to 20,000 I/O's is superfluous, and also because of the synchronization between DCS database and project documentation generated by Ovation Documentation Builder.

The new Emerson workflow is subdivided into six steps, with the two systems optimally supplementing each other: This starts with the field instrumentation in Ovation Documentation Builder and simultaneous definition of the plant concept in Ovation and goes via loop generation with typicals and easy cabinet configuration down to the assignment statistics and the intelligent final documentation.

## Cooperation results in major contracts

The cooperative solution is already being implemented in several major projects, e.g. for supercritical units and very large hydroelectric complex. The combination of hardware system supplier and engineering service provider makes the company according to its own assessment a strong force in European and in the long run also in global competition.

