

# Case Study

## Scots Controlled Indian Spray Dryer

### 'curries favour with Chinese'

When Qingdao Ciba Dyestuffs needed a Spray Dryer for their new process plant in Qingdao, China, their Swiss joint venture partners chose an Indian manufacturer, CEE Engineering of Pune. When it came to the controls for the dryer, however, they chose a Scottish Systems Integrator, Alba Controls Limited of East Kilbride. Both decisions have resulted in a first class solution which combines safety, reliability and ease of use for the Chinese operators, with the best ever product quality results.

#### The Challenge

Plant visualisation required careful attention at the design stage, the prime objective being to convey process critical data in an unambiguous fashion to, as yet, unskilled operators with little or no English.

The approach adopted by the Alba engineers was to maximise the graphical representation of plant functions such that understanding of the textual data was secondary to the visual representation of plant status.

This was further enhanced by the provision of dual language/character support for English and Mandarin Chinese texts. The end result met with unanimous acceptance from all of the process and plant operating personnel.

#### The Solution

The control solution was based on an Allen-Bradley PLC 5/40 with the visualisation being integrated within the site wide distributed Scada network.

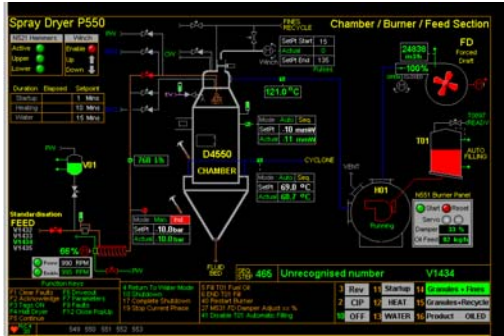
The system was fully simulated and tested in Switzerland by the joint venture partner.

Commissioning and tuning of the various control loops and algorithms was conducted by experienced Alba Controls engineers enabling the goals of flexibility and high levels of performance to be achieved. When this was allied to the degree of plant visualisation of the SCADA HMI interface configuration, the benefits became obvious, both in the delivery and start-up phases of the plant.



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Thinking globally, acting locally.



## The Bottom Line

Batch Control specialists Alba Controls have considerable process experience successfully integrating a wide range of drying applications for customers in a range of process industries world-wide.

Alba Controls Limited, Systems Integration with an International Flavour.

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