

SIMATIC PCS 7 automates glass tube production at Osram



Customer Info

Customer
Osram

Business Group
Osram

Country
Deutschland

Location
Augsburg

Industrial Sector
Glass tube

Project:

Glass tube production



The repair of Furnace C end due the year 1999 gave Osram the opportunity to rethink its current operating philosophy and to modernize its control technology.

The operation in Augsburg employs around 2000 staff. It comprises of the glass factory, the lamp factory and the machinery delivery center. The glass factory produces the glass tubes used in the lamp factory to manufacture fluorescent lights.

Innovative from the very beginning:

As part of a furnace repair in 1980, the central control technology was equipped with the Teleperm M AS220 automation system – something new for the glass industry at the time. When the new furnace B opened in 1987, it was equipped with the same technology. Last year as part of the repair work on furnace C, the existing control technology islands were replaced by a central solution which also integrated the glass batch preparation and the tube pulling (Vello process).

In the spring of 1999, Siemens was awarded the contract to automate the new control room with the **SIMATIC PCS 7** process control system.



The primary reason for selection of SIMATIC PCS 7 was proven expertise in the sector, local presence and good long-term cooperation. Crucial to awarding of the contract was the migration solution offered which allows the existing Teleperm M system to be integrated into the new automation concept.

As the I/O periphery could also be taken over without changes, no new periphery test was required, something which reduced costs and shortened repair times.

In order to guarantee continuity, the inventory was networked via Profibus to the existing Simatic S5 115U controls and SIPART DR22 controller. Two redundant servers link the system bus with the terminal bus. The system is operated via five operating stations, one of which is being used as an engineering station.

Scheduled implementation

In a period of around five months, a considerable amount of engineering work had to be carried out. According to the Osram Chief Project Engineer, the fact that it was possible to keep to the September 1999 start time for the melting end could be attributed to the excellent cooperation within the project team and the short decision-making paths.

The factory manager, was able to present the new plant at the DGG meeting in Ulm in May 2000.

Siemens solution:

Process control system SIMATIC PCS 7, SIMATIC S5-115 U PROFIBUS

Key points pro Siemens:

- Long-term cooperation
- Short decision-making paths
- Excellent cooperation

