

Industry: Process

Products Used: Control Systems/Modular

“Baptism of fire” in the space of a week at the Hamm waste incineration plant

KH-Automation Projects succeeded in converting the general section of the Hamm waste incineration plant to operation with new redundant automation technology from Mitsubishi Electric in the space of just one week, simultaneously giving the new Mitsubishi system its “baptism of fire”. As one of Mitsubishi’s International Key Customers, KH-



Automation Projects got a head start with the new redundant MELSEC System Q controller system and was able to implement a project with it before the official launch.

At the end of August 2004 the Hamm plant was due to be shut down for one week for scheduled overhaul work. This was the finite time window available to KH-Automation Projects from Fuldabrück near Kassel for the installation and commissioning of the new control system for the general section of the waste incineration plant, which has 2,500 field signals.

On 21 August 2004 the Hamm plant was shut down and the specialists from KH-Automation Projects were able to start the conversion and installation work. The existing automation systems were removed from the switchgear cabinets together with the wiring blocks, so that the field connections were also the interface to the system. The new

automation stations were pre-installed on mounting panels, which were then installed in the cabinets en bloc. After this the wiring all had to be routed to the terminal board.

Before the actual installation work the new automation technology and the special application software developed by KH-Automation Projects for the PMSXpro process control system both underwent thorough testing with the help of a simulation program that also simulated all the field signals. These exhaustive tests ensured that the application software was very mature and almost completely bug-free when it was delivered to the plant. This preparatory testing significantly reduced the amount of work required for the actual hot commissioning on site.

KH-Automation Projects succeeded in converting and reconnecting the entire general section within the required period of just one week: The Hamm incineration plant was re-activated on schedule On Sunday 29 August 2004. The conversion of the first incineration line to the new control technology is going to be performed this November, within in a similarly narrow time window.

Application story first released in August 2005