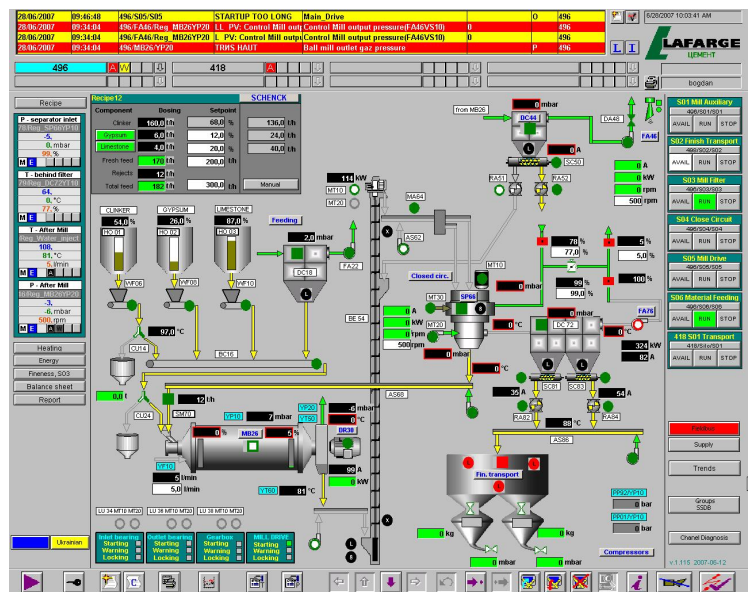


OJSC "MYKOLAIVCEMENT" ELECTRICAL AND AUTOMATION SYSTEM DELIVERY AND INSTALLATION OF CEMENT GRINDING SHOP



On OJSC "MYKOLAIVCEMENT" (owner Lafarge) was installation by main contractor ICER (Berlin) of a new cement grinding shop with new cement mill #9, equipped with closed circuit:

- Clinker and additives feeding system
- Water distribution / Diffusion system
- Lubrication stations for Mill inlet and outlet bearing
- Lubrication station for main drive gear box
- Main drive gear box
- Main mill motor
- Cement transport to Separator
- Separator
- Mill filter
- Separator filter
- Cement transport



VOTUM (as subcontractor) has performed the following works - the design, engineering, project management, manufacturing, supply, erection, commissioning and start up for electrical equipment and automation part of this project, in particular:

- Optical fibre cable
- Cable traces and supporting
- ACC Auxiliary Voltage Control Centre
- Auxiliary Voltage supply (230 V AC UPS, 24 V DC power unit, 400/230 V Trafo)
- Process control system (SIEMENS PLC S7-400 and Operator Station)
- Digital and Analog (DM, AM) Marshalling boards (SIEMENS ET200) and transmitter
- Control system network
- Control system software (SIEMENS PCS7 ver.6.1 SP1, Cemat ver.6.1 SP3)
- Local equipment (emergency PB, Start warning, PB's, horns)
- Lighting and maintenance units
- Training personal



AUTOMATION STRUCTURE

