INDUSTRY : FOUNDRY

COMPANY : FERRO DOKUM AS

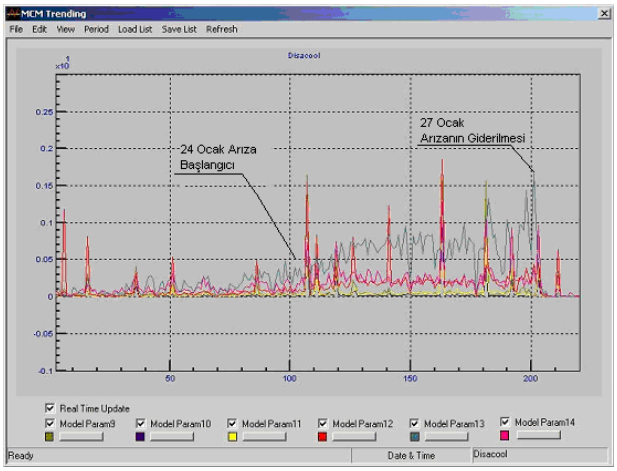
APPLICATION : FAN , DISACOOL

MCM SYSTEM : 14 PIECES MCM-LOW VOLTAGE

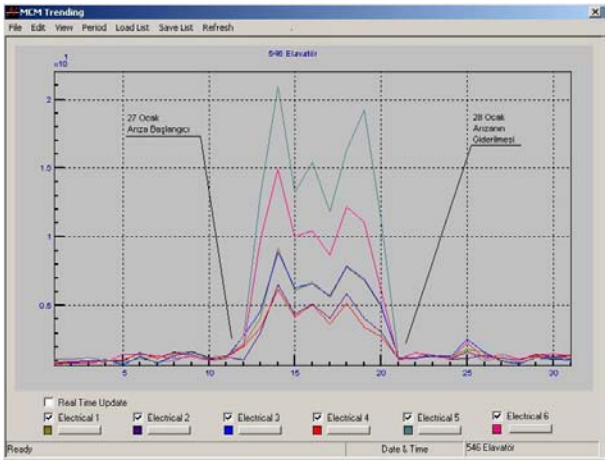
REMOTE MONITORING SYSTEM : MCMScada, LAN

APPLICATION : EARLY FAULT DETECTION
PROCESS MONITORING
ENERGY QUALİTY & ENERGY CONSUMPTION

CASE :



- Following the revision on the mechanical equipment that the MCM-monitored motor drives (Disacool motor), starting January 24th, an increase was noticed on the mechanical parameters with an increased trend. The maintenance team analyzed the situation using the output that MCM has provided, and determined that the gearbox mill was broken and the broken mill was replaced. After the maintenance work that was done on January 27th, it was noticed that the mechanical parameters went back to their normal values, and the system started to work with its previous performance.



- As the MCM device turned on its “Perform Maintenance” led, MCMScada parameters were checked and it was noticed that the Mechanical parameters 12, 13, 14 were increasing as displayed in the figure above, indicating that a mechanical problem has been developing.

- As of January 27th, 2004, following the alarms that MCM provided, by using MCMScada graphical interface, maintenance team first decided that the problem is an electrical failure on the Elevator motor. With the analysis on the motor, it was determined that the motor oil seal was defective and oil was leaking into the motor. This is an electrical failure (oil leakage causes the air gap between rotor and stator to be disturbed and causes isolation problem) with a mechanical root cause (oil seal defect). As a result, an unplanned breakdown was avoided.