

INDUSTRY : Petro-Chemical

COMPANY : BP - British Petroleum

APPLICATION : Pump

MCM SYSTEM : 8 Pieces (7 pieces MCM-LV,
1 piece MCM-Inverter Driven)

REMOTE MONITORING SYSTEM : MCMScada, Dial-up Connection

APPLICATION PURPOSE : Early Fault Detection
Process Monitoring
Energy Quality and Consumption Monitoring

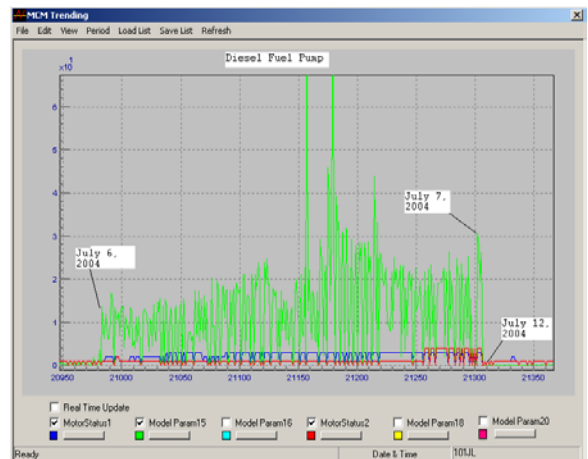
CASE :



EARLY FAULT DETECTION

- Following the alarms that came from MCM and the increase in the mechanical parameters that started on June 6th 2004, the maintenance team noticed an increased temperature on the front cover of the motor. It was determined that a deficiency in the bearing house was the cause of the problem; the required maintenance work was done on the bearing house and problem was resolved.

- When the fault started to develop, by using MCMScada graphical user interface program, customer can easily follow that the increase in Mechanical parameter 14, indicated by green line. At the same time, MCM gave the "Perform Maintenance" alarm and sent an e-mail message to the specified distribution list. After the maintenance, which took place on June 7th 2004, the mechanical parameter 14 went back to its normal values, showing that the quality of the maintenance work can be monitored very effectively.



PROCESS MONITORING & ENERGY CONSUMPTION MONITORING

- In order to monitor and control the energy consumption on direct driven motors, a frequency converter was installed to the system. The energy consumption before and after the frequency converter was monitored by MCMScada on the diagram on the right.

