

ACTAVIS Malta - Pharmaceutical Plant Building Management System (BMS) Environmental Monitoring System (EMS)



SCOPE OF VERKÍS SERVICES

The following are the main fields of services provided by Verkís firms:

- ✓ Project planning and cost estimates for electrical equipment
- ✓ Design criteria for all electrical equipment
- ✓ Tender documents for all electrical equipment
- ✓ Review of bids and assistance in negotiations and contracting
- ✓ Detail design of electrical-, control- and protection equipment
- ✓ Programming of control systems (PLC and SCADA)
- ✓ Organization, scheduling and supervision of electrical installation work
- ✓ Site tests, commissioning and validation

DESCRIPTION

The BMS is controlled by a number of programmable logic controllers (PLCs) that handle all regulation of heating, ventilation and air conditioning (HVAC) and the start/stop control sequences. Additionally the water systems, steam boilers and process control systems are connected to the BMS. The PLCs are connected on a network, typically Ethernet and are programmable remotely and "on line".

The supervisor system consists of two PCs running a supervisory control and data acquisition software (SCADA).

The software includes the following interfaces:

- Graphical control and monitoring
- Historical trending, viewing and logging to database

The BMS can be started and stopped from the SCADA software and set point values changed.

All HVAC variables, alarms and events are displayed on screen. They are also logged to a database and can be viewed later on screen or in printed reports. Customised reports can be generated.

The SCADA system, if used together with a web client, has the possibility to view and control the system remotely over the internet.

It is also possible to diagnose and troubleshoot the system and update the programs in the PCs and the PLCs.

The EMS monitors and logs the temperature and humidity in the different areas.

PROJECT OVERVIEW

Actavis Malta is part of the Actavis Group. Actavis is one of the world's leading players in the development, manufacture, and sale of first-class generic pharmaceuticals. The successful integration of a number of acquisitions has helped position Actavis among the world's largest companies in the industry. Founded in 1956, Actavis has more than 11,000 employees operating in over 40 countries around the globe. Actavis' headquarters are in Iceland. Actavis Malta now employs close to 500 staff.

TECHNICAL INFORMATION

PLC units:

Type, Schneider Premium and Micro units

Number of units: 15

Number of I/O points: 2100

Communication: Ethernet and Modbus

SCADA system:

Software: Factory Link

Total SCADA I/O points: 3600

SCADA Server:

Operating system: Windows 2000

Number of units: 2

Database: SQL

