



## “Sirus has entered into a Master Service Agreement with Merck Sharpe and Dohme as a result of the success on this project ...”

In 1976, Merck & Co. Inc established it's operation at Ballydine, near Clonmel in Co. Tipperary, where it now employs more than 350 people. It is a large-scale plant producing active pharmaceutical ingredients for use in pharmaceutical manufacturing by Merck & Co., Inc. subsidiaries throughout the world. Recently the site moved into the development of late stage clinical API. This involves laboratory scale process development followed by plant scale up to both pilot plant and full scale production, as well as preparation for regulatory filings. In September 2007, construction will start on a Formulation R&D and Manufacturing Facility located on the existing site.

This was the first project we completed on the MSD site. Such was its success that Sirus secured a master services agreement with MSD for BEMS. We then were fortunate to also win the contract to provide the BEMS for their new Vaccine plant in Carlow. This project went very well and firmly established a relationship with MSD which we hope will continue long into the future.



### Noteworthy Points:

- R&D and manufacturing facility
- 6 Qualified BEMS panels & 2 non-qualified BEMS
- Dedicated fan-coil & unit heater control systems
- Server Cluster Arrangement for Servers
- SAN (Storage Area Network)
- Rack-mounted monitored servers for Qualified BEMS
- OPC Link to site Historian
- Interface providing descriptive alarm text through pager system to site technicians
- Modbus interfaces to major plant equipment
- General AHU's controlled on enthalpy and active pressure control, some AHU's controlled on Low RH and active pressure control

### CLIENT

Merck Sharp & Dohme (Irl.) Ltd.  
API R&D Formulation and manufacturing

### LOCATION

Ballydine, Kilsheelan, Clonmel, Co. Tipperary, Ireland

### SERVICES PROVIDED

BMS Design and Installation  
Total Data Points: approx. 750  
8 DPU Panels

### VALUE OF SERVICE

€600,000

### DURATION

2008-2009

### REFERENCE

#### CONTACT

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### CONSULTING

#### ENGINEERS

Project Management