Upgrading to Cylon systems provides controls flexibility

PROJECT SUMMARY

<table>
<thead>
<tr>
<th>Applications</th>
<th>Monitoring, Heating, Air handling, cooling, Metering</th>
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<tbody>
<tr>
<td>Points</td>
<td>5,000 points</td>
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<tr>
<td>Number/Type of Building</td>
<td>50 Buildings over an area of 114,596m²</td>
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<td>Network</td>
<td>Ethernet</td>
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<td>Cylon Hardware Installed:</td>
<td>UC32 UCXX controllers</td>
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<tr>
<td>Cylon Software Installed:</td>
<td>UEC6 UCC</td>
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<tr>
<td>System Integrator</td>
<td>Nobbs &amp; Jones Limited</td>
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PROJECT OVERVIEW

Royal Preston Hospital is part of Lancashire Teaching Hospitals NHS Foundation Trust. It provides a full range of acute services for the people of Preston from 24-hour accident and emergency facilities to high dependency and coronary care units and maternity services.

The trust also provides a range of specialist services for the wider population of Lancashire and South Cumbria including: neurosurgery and neurology, oncology and complex cancer surgery and renal services. It also provides burns and plastic surgery and disablement services such as artificial limbs and wheelchairs.

The highest level of healthcare is provided from a modern, state-of-the-art teaching hospital.

The Hospital comprises of 50 buildings and a total area of 114,596m². It has 1000 beds and serves over 1.2m patients annually. The BMS is linked by a hospital wide Ethernet network, which ensures real time monitoring of all buildings. The annual energy bill stands at £3.4m.

“The Cylon BMS enables powerful central monitoring and control of energy consumption and allows us the flexibility we need to implement cost saving changes” John Allen, Energy Manager

SOLUTIONS BENEFITS

The Cylon solution has allowed the Royal Preston Hospital to gradually replace ailing Honeywell systems with a more flexible and cost effective solution. The new solution allows effective implementation of the energy management policy.

Central Supervision - system supervisors have overall control of all HVAC systems in the hospital and the remotely located clinics.
Flexible Control - surgeons and other key staff now can locally control temperature and humidity in critical areas such as operating theatres and x-ray

Seamless Integration - both Ethernet enabled UnitronUC32 systems and older Unitron 2000 systems are integrated with a single supervisor system on the hospital IT network

Ease of Use - the system enables the estates department to manage and alter the system themselves without constant reliance on manufacturer assistance

CYLON SOLUTION

In the past Royal Preston Hospital has used a variety of BMS solutions. However Cylon is now the main system used. It has been very successfully implemented by Nobbs & Jones (a Cylon Approved System Integrator) in a variety of new buildings including: medical rehab unit, education and training wing, obstetrics & gynaecology building and a pharmacy.

The Cylon BMS controls the boiler plant, ventilation systems and radiant heating panels. The radiant heating system provides the flexibility needed to ensure patient and staff comfort. Building use is varied and includes state of the art delivery suites and operating theatres requiring exact control. The Trust’s local clinics are linked to the main hospital buildings using a Wide Area Network (WAN). The whole system is managed from 3 supervisors in the estates office on the same Ethernet network. A range of energy saving measures have been successfully implemented including the use of occupancy sensors to step down heating levels when rooms are not in use. The very experienced energy management team are complemented by maintenance services provided by Nobbs & Jones.

Nobbs & Jones Limited
70 Roman Way,
Grimsargh,
Preston
PR2 5BD
UK

Tel: +44 1772 655500
Fax:+44 1772 655600

Contact: Scott Rotheram
Email: scottrotheram@nobbs-jones.com