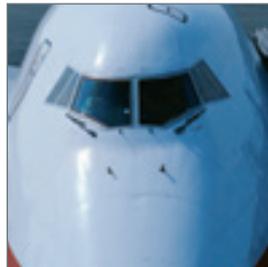


case study



London Heathrow Terminal 5

Honeywell Building Solutions (HBS) now ranks as the UK's leading supplier of airport fire detection and alarm systems. At Heathrow, the company has managed to achieve cost savings of 20% for its client BAA, with whom it has had a Tier 1 framework agreement since 1996. For Heathrow Terminal 5, which is due to open in 2008, it is to supply

what will be the largest fire detection, voice alarm and public address system ever to be installed in the UK. The system's use of innovative technology, some of which HBS is developing specially for the project, will have significant cost benefits.

Honeywell

Fire and BMS Solution

Becoming and remaining a BAA framework partner is no mean achievement. In attaining this status, HBS underwent a comprehensive evaluation with all its systems and processes being closely scrutinized. Every year it is subject to a rigorous 'MOT', which it must pass if the partnership agreement is to continue. All aspects of the business are examined, including quality, people, the supply chain, performance improvement, finance, R&D and business development. Under the current agreement, the two parties have quarterly meetings – as well as participating in other joint activities relating to specific projects, such as risk management workshops.

The framework agreement covers all 7 BAA plc Airports. Gent by Honeywell's analogue addressable fire detection and alarm systems have been retrofitted into Heathrow, Glasgow and Edinburgh Airports.

A key objective has been to limit whole-life costs and the savings made extend from procurement, design and installation through to operation and maintenance. At Terminal 1, £500,000 was saved simply by employing soft sheath cable, this being much easier to install and terminate than the copper-covered MICC alternative historically used by BAA. In Terminal 3, the marked fall off in false / unwanted alarms after the Gent system took over, was initially estimated to be worth £1million a year in disruption cost savings.

A 'smart' approach to installation has been another means of cutting costs. For example, instead of doing work only at night, HBS has carefully scheduled its programmes to enable daytime working in areas that are not in continuous use. On-going system costs are controlled in a whole variety of different ways, including preventative maintenance and remote monitoring/diagnosis. The existence of a single commercial team for all BAA's framework partners has produced yet further economies, in that it has prevented duplication of roles. Some savings have been impossible to quantify, such as those that have resulted from minimal staff turnover.

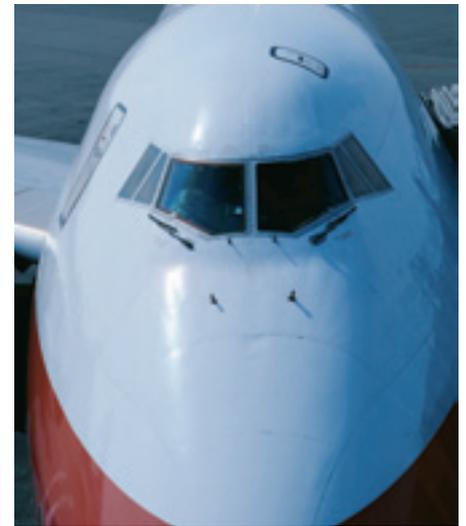
HBS will spend a predicted £1.5million on developing Heathrow Terminal 5's integrated fire detection, voice alarm and PA system, which will incorporate a number of innovative and patented technologies. These will include the use of a campus-wide, fibre-optic Gigabit network and a fully digital audio system, with as many as 100,000 digitally addressable and fully monitored loudspeakers.

The Gent panels will support TCP/IP for data transportation (running over Ethernet), as will the terminal's Trend building management system. This will facilitate the development of a common operator interface, which may also give access to other systems within T5. The TCP/IP/Ethernet network will provide the

£500,000 was saved simply by employing soft sheath cable, this being much easier to install and terminate than the copper-covered MICC alternative historically used by BAA.

medium via which the two systems can communicate (to allow both to control fans and fire dampers). It will therefore be unnecessary to run countless hardwired links between them, which will reduce the potential for error and make for faster installation and commissioning.

As part of the company's policy of continuous improvement, HBS is constantly looking for new ways of improving on the already impressive level of savings enjoyed by BAA.



Honeywell Building Solutions

EMEI HQ
Honeywell House
Arlington Business Park
Bracknell
Berkshire RG12 1EB
Tel: +44 (0)870 600 1659
www.honeywell.com/buildingsolutions

HBSCASE107A
November 2006
© 2006 Honeywell International Inc.

Honeywell