

ON TRACK...

From IPS and Postfield Systems



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Olympic transport projects

During the Games, the rail network, which includes National Rail, London Underground and Docklands Light Rail services, will carry the greatest number of spectators.

The games-time rail strategy is based around the principle of maximising the use of the infrastructure, assets and services that will be in place by 2012.

The guarantees given to the International Olympic Committee promise a legacy of better transport that is already being delivered. TFL's £10bn five year investment programme was well under way by the time the Games were awarded. These improvements will meet the needs of our growing city over the next 20 years.

IPS have been involved in three Olympic projects to date, (see page 2).



Source: Tube Lines

Wembley Park Station:

Large crowds of fans will be able to move quickly and easily through the station onto the platforms and away from Wembley as the capacity is increased to handle 70% more passengers than previously – nearly 40,000 people per hour!

“ IPS demonstrated a true commitment in challenging circumstances to providing Tube Lines with a service that allowed key milestones on the Wembley Park flagship project to be met. IPS' hands on approach and professionalism demonstrated by the will to achieve the project goals was a unique experience. ”

Philip King, Project Manager, Tube Lines



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Olympic transport projects... continued



Source: The Western Ticket Hall at King's Cross St. Pancras Station, London

The Olympic transport plan – key facts

- Ten rail lines will serve the Olympic Park; (Stratford-GE Mainline, North London Line, Lea Valley Line, DLR, Central Line and Jubilee Line; at West Ham the C2C Line, District Line and Hammersmith & City Line and the CTRL to Stratford International).
- One train every 13.87 seconds will serve the Olympic Park and the system can achieve a capacity of 240,000 people per hour.
- The Games will take place during August when there is 20% less demand for public transport.

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Wembley Park tube station

Major improvements have taken place at Wembley Park Tube Station to support the new stadium and the wider regeneration of the area.

IPS were awarded the contract to carry out the installation and commissioning for the following communications equipment:

- 120 CCTV cameras – Fans going to events at the new National Stadium or Wembley Arena will be clearly seen through the station on the extensive suite of cameras that provide coverage throughout the station.
- 10 Postfield Systems 'BrightEye' environmental monitors*
- 750 speakers (covering 19 zones)
- 25 help points
- Induction loops on the public address system and help points
- 6 Postfield Systems Train Mass Detectors*
- 4 Clocks
- Ethernet network connected over fibre optic cabling.

* For further details relating to this equipment please click on: www.postfield.co.uk/products-services.htm

2

Communications modernisation at London Underground's King's Cross St. Pancras

IPS is nearing completion of their most prestigious project to date – the modernisation of the communications systems in the redevelopment of King's Cross St. Pancras Station (Phase 1). The new station redevelopment provides step-free access to the Circle, Hammersmith & City and Metropolitan lines, as well as new and enlarged public subways and additional routes to street level. It also features the new Western Ticket Hall, which has been designed to ease congestion during peak periods. The station is expected to handle 500,000 passengers each day by 2020 – making it the busiest station on the London Underground Network!

With experience gained through previous London Underground projects, IPS was selected as the sub-contractor to perform communications systems design and integration for the following systems: CCTV, Public Address Voice Alarm System (PAVA), Passenger Help Points and Uninterruptible Power Supplies.

For further details relating to this project please refer to Issue 1 of 'On Track'. You can download Issue 1 from our website: www.ips-ltd.co.uk/images/On_Track_lo_res.pdf

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Tube Lines station refurbishments

IPS refurbished 7 stations on behalf of the infraco Tube Lines, whose target is to modernise 275 stations by 2010.

The stations were:

- Golders Green
- Stockwell
- Manor House
- Morden
- Wembley Park
- Turnpike Lane
- St Johns Wood

IPS initially built a validation system for all the equipment using the latest technology (e.g. cameras over Cat 5e) to prove that the concept worked, they were then issued with a generic specification from Tube Lines. As a result of the first two stages, detailed designs were drawn up and signed off.

During the project, IPS carried out the installation & commissioning, logistics (holding equipment in a secure bonded in-house store), customer assurance testing and part/soak testing.

There was excellent teamwork between both parties to ensure that all the deadlines were met and that the stations opened on time.

IPS has also upgraded 8 stations on behalf of Enhance.

Major maintenance contract

Metronet has awarded the maintenance contract at King's Cross St. Pancras Station (Western Ticket Hall) to IPS. This follows on from the four year communications modernisation project, which is nearing completion, where IPS acted as the installation and communications integrator (please refer to P2).

The contract, which commenced in December 2006 for 12 months, provides corrective support 24 hrs, 7 days a week, 365 days of the year and covers a range of equipment including: CCTV, Public Address,

Passenger Help Points, Clocks and the Local Area Network. Planned maintenance is also part of the contract to ensure the system is in good operational order throughout the year. IPS ensures there is direct communication with the Metronet Control Centre (MCC).

IPS has a dedicated maintenance and management team with full reporting facilities and performance assessment capabilities. IPS has utilised the in-house skills of IT Engineers who have worked on the site over the last four years as the systems are networked across highly sophisticated network management and distribution protocols.

Waterloo & City tunnel telephones



IPS were tasked with design, installation & commissioning a new Tunnel Telephone System. This is a unique system on the underground network as, although the Waterloo & City Line is run by Metronet, the traction current is fed from Network Rail.

This required special interfacing between Metronet Waterloo & City tunnel telephone equipment and Network Rail Sub-Station traction current discharge system. The system comprised of a new control rack, sub-station interface and Headwall telephones at Waterloo and Bank stations, along with Signalmans control panels in the new control room and old signal cabin and a test panel within the Waterloo & City Line depot.

IPS commenced this project during the latter stages of the 'Blockade' where the Waterloo and City Line was closed for major track refurbishment.

“The Tunnel Telephone Replacement was a major element of the very high profile Waterloo & City Blockade project. IPS put a lot of hard work into completing the design & installation of the new Tunnel Telephone System for the Waterloo & City Line, in what was an almost impossible time scale and very difficult conditions. The IPS team were always very helpful and supportive and a pleasure to work with.”

Debbie Fitzgerald, Project Manager, Metronet Rail

Did you know?

- We now have a Document Controller to ensure consistency in managing customer information and outgoing transmittals as part of our ISO 9001:2000 accreditation requirements.
- As a result of a successful ISO supplier approval audit, IPS has been accredited as a 'Low Risk' approved supplier by Metronet Rail for their registered scope of supply. The assurance status is valid for three years and is dependent on continual acceptable assurance and performance.



This adds to IPS's approved supplier status already in place with Enhance (Telent/Amey joint venture).

- The job opportunities section on our website is now live. The site includes current vacancies and an online form for potential applicants to register their interest. Click on: www.ips-ltd.co.uk/job-opportunities.htm
- Our supplier questionnaire has been enhanced to include a H&S and Environment section to ensure that all suppliers have these policies in place where relevant.
- We now offer a bespoke bracket service for London Underground/Rail projects. For further details please contact*: wendy.coward@ips-ltd.co.uk
- Congratulations to Matt Tuvey who has been working with Telent and Fluor on the Connect Project since August. Matt was awarded 'SPC of the Month' for his excellent performance on this critical project.*
- Highlights from our customer survey are now available on our website. The survey has resulted in an increased awareness of our in-house design capability which in turn has led to an increase in sales!*

* Please refer to our website for further details relating to this story.

Cockfosters Station

IPS is currently undertaking two separate but closely related contracts at Cockfosters Underground Station.

IPS are pulling in and testing approximately 18km of comms cabling directly for Tube Lines; whilst for Enhance, IPS are installing the entire station comms assets cameras, speakers, public help points, with the racks and control desk equipment.

It has been unusual in the current tranche of Tube Lines station modernisation for the same contractor to be both cabling and installing the comms, but this has resulted in several benefits, especially with the

overall station comms installation making rapid progress. This has principally been the case for two reasons:

- The excellent communication between both IPS teams leading to co-ordinated activities to avoid delays; and
- IPS has been testing the cables as soon as they are pulled in, rather than the more 'typical' practice of testing all cables at the end of all cable pulling. This approach has resulted in our comms technicians making better progress as they can install and terminate equipment almost immediately after the cables are in without waiting for the cable test results weeks later.

“ We have achieved a lot in a short time at Cockfosters and without the experience and professionalism brought to these sites by IPS we wouldn't be in the position we are in now. I have had comments back from the site team such as 'If all our contractors were like IPS then it would make our job a lot easier!' ”

Matt Gaunt, Construction Manager – Comms, Tube Lines

Congratulations...

Congratulations to Phil John from Tube Lines who entered our 10th anniversary competition. An

i-Pod Nano is on its way to you!

We will be offering our readers the chance to win more i-Pods in future editions.

Join our mailout

If you have received our newsletter from a colleague and would like your own copy please email: wendy.coward@ips-ltd.co.uk

Alternatively you can download the latest version from our websites:

- www.ips-ltd.co.uk
- www.postfield.co.uk



10th Anniversary

IPS celebrated their 10th anniversary with a customer promotional day at the Bluebell Railway in East Sussex. With transportation being a key market for both IPS and Postfield Systems it was the ideal venue!

Systems Manager Steve Cordey demonstrated the latest text-to-speech software, whilst customers were able to test the system themselves. Postfield Systems high quality 20" and 30" BrightEye ruggedised monitors were used in the demonstration to display customer information. The 20" monitor is currently being used on the London Underground as a passenger awareness monitor.

Our customers were spoilt with a 3 course meal aboard the luxurious carriages. There were plenty of surprises during the day including a customised birthday cake for the directors and a magician!



IPS Birthday Cake

For more info

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