Project Fact Sheet

Project Brief:

The project was initially to carry out a thorough inspection and specific refurbishment to sections of the 40 year old Economy Water system. During further inspections, it became evident that additional works were required on the system. The scope increased to include the strip out and replacement of the existing cast iron tank on the roof. The design also took into account operational issues and reduced the roof tank sizes, so that should a total system drain down be required, all water in pipework above ground could be contained within the sub-basement concrete water tanks.

The Controls of the whole system have also been improved to allow for a better level of management of the system. The revised design has included for additional pipework on the 8th floor plantroom to allow for better circulation in and out, of the tanks to the various buildings.

With the installation of 3 new self-priming vacuum pumps, the control of water circulation is greatly improved. They have been sequenced to work in direct response to the prevailing demand for circulation in the system. The location of the new pumps in the lower basement area has required the installation of new lifting beams, new safe access and egress to the area.

For more information please contact Eric Obiri, at e.obiri@imperial.ac.uk

Project Update:

- New 90,000-litre tank installed in two sections on level 8 plantroom plus various pipework modifications carried out there and on roof cooling towers for an improved system.
- Installation of 3 number self priming vacuum pumps in place of the temporary single unit which has been operating for the past 12 months.
- Installation of a new electrical control panel.
- Economy Water system has remained in use during the upgrade / improvement works.

For more information please contact Eric Obiri, at e.obiri@imperial.ac.uk

Construction Project Team:

**Project Manager:** Gardiner and Theobald

**Contractor:** N/A

**Architect:** N/A

**Mechanical Contractor:** Longcross Engineering

**M & E Engineer:** Hoare Lea

**Electrical Contractor:** T Clarke PLC

**Structural Engineer:** N/A

**Cost Consultant:** Gardiner and Theobald

Project Facts & Figures:

**Budget:** £450,000

**Funding Source:** SRIF 3

Construction Project Programme:

**Start on Site:** September 2006

**End Date:** March 2007

**Occupation Date:** N/A

For further information contact Project Manager as listed above or Imperial College London Projects Information Manager t.watt@imperial.ac.uk 020 7594 8985