

Waste Water Reduction

Project: Shell Centre Tower Building

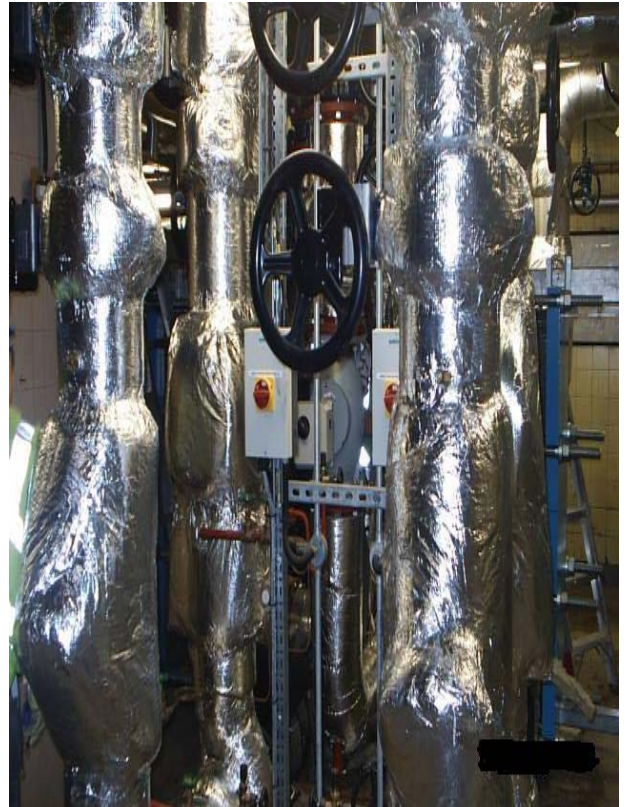
Client: Shell

Project description

SPIE Matthew Hall worked as Principle Contractor on the infrastructure element of the refurbishment of the 26 storey Shell Centre Tower building replacing the mechanical and electrical infrastructure services.

The new infrastructure building systems which service the building with heating and cooling has a capacity of approx. 100 000 litres of water.

The design specification was originally shown with a requirement to carry out two static flushes in order to remove large debris and contaminated particles from within the pipe work prior to a dynamic flush.



Boiler room section of installed heating and chilled water supply system

Static flushing alone during the testing and commissioning would require 200 000 litres of potable water.

SPIE Matthew Hall reviewed the specification with their supply chain and suggested and gained approval that a second static flush could be eliminated as it was deemed excessive for the systems being installed.

Benefits

The benefits of reviewing the specification requirements and eliminating a second static flush include saving 100 000 litres of potable main water, time and labour saved as a result which was estimated in the region of £15,000.

Key learnings

The above example demonstrates the following key learnings:

- Identify the most significant environmental aspects of a Project (in this case water)
- Question conventional methods by engineering expertise
- Link any reduced environmental impact to reduced cost where possible

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