



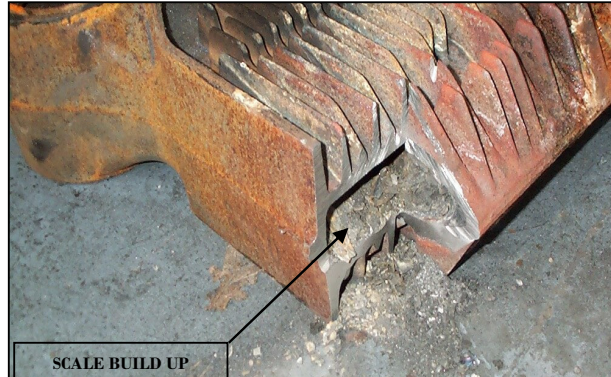
ENWA

www.enwa.co.uk

Progressive introduction makes ENWA King of Herts.

Project:

University of Hertfordshire.
Hatfield Campus.
Ventilation plant.



"...Shows large amounts of scale build up which has then caused the section failure. The scale build up would be due to excessive water make-up in the heating system".
Dave Morton, Broag Ltd.

"Lots of pumps were going wrong, falling apart at their mechanical seals and leaking. Three port valves were leaking or sticking and not operating properly. Massive sections were cracking on 900 kW boilers that weren't even a year old. I was finding the boilers locked out on over-heat every day". Hugh Adams, Mechanical Engineer.

Case history

- Significant increase in reactive maintenance cost. A single 10,000 litre heating system within the CP Snow Building generated costs of £14,767 over 2000-2001 due to failure of major system components.
- High numbers of complaints from staff and students with no heat.
- Inability to accurately control systems.
- A condition survey revealed poor water quality, typically black/brown water with high levels of particulates. Hard make up water increased the propensity for scaling within heating systems.
- A lack of planned maintenance due to non performance of the existing supplier.
- A suitable water treatment regime was essential to prevent further deterioration of the existing building stock.
- A conventional chemical approach was not favoured due to the potential risk of scouring the older HVAC systems and generating leaks.

The EnwaMatic® approach

- EM 1252 installed 2001 within CP Snow.
- Water quality significantly improved and maintained. System water was clear, colourless and particle free, with negligible levels of dissolved metal ions three months post installation.
- Absence of reactive maintenance costs over 2001, representing a 4 month return on investment when compared to the previous years expenditure.
- Return on investment compared to an alternative chemical treatment within 18 months.
- Improved control of HVAC systems directly related to improvements in efficiency.
- Compliant with the University's environmental policy.
- Progressive introduction approved by Director of Estates. 22 EnwaMatic installations now condition in excess of 200m³ water on site.
- Extension of the EnwaMatic approach with the installation of a further 9 units at the deHavilland campus in 2005 / 2006.

"Radiators were getting hot that were not before. Energy was not being used to reheat boiler water every morning because the boilers were no longer tripping out and settings for system operation, whether set at 70 °C or 80 °C, were being maintained. 3-port valves were no longer sticking and I know that all these savings have meant more money in my pocket to spend elsewhere". Hugh Adams, Mechanical Engineer.

For a full version of this case study and any other information on the EnwaMatic® water treatment units please contact:

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