

RBC

Remediation

... Is this the reason why you will not use RBCs?



Collapsed Rotor Assembly

- **Minimum 20 Year Life**
- **Low whole life costs**
- **Cranfield Design**

History

Many people have dismissed RBCs as a treatment process because they believed they were unreliable and overall had a short life due to fatigue failure.

Copa's RBC manager Professor Eric Findlay, formerly employed by Severn Trent Water Ltd approached Cranfield University, School of Mechanical Engineering for their advice.



Copa RBC Shaft Assembly

The following major study at Cranfield, lead by Findlay lasted for 10 years during which Cranfield's staff surveyed and reported on over 200 plants.

As a result of their study, new ideas emerged and the reasons for failures were fully understood. Proposals were put in place to ensure the integrity of all future RBC's.

Cranfield Study

The Cranfield research revealed that RBCs failed in fatigue exacerbated by slow rotation

in an aggressive environment. Their study identified the correct fatigue stresses at a specified biomass thickness and speed of rotation.

The Cranfield/Tomkinson rotor design incorporates many features that reduce fatigue stresses to ensure a minimum 20 year life making the process extremely robust and cost effective. The process is simple to operate with a low energy requirement.

Copa Limited have been awarded a framework contract for RBC Remediation from Severn Trent Water Limited that incorporates the Tomkinson/Cranfield designed rotor.

For further information please visit our web site www.copa.co.uk. or contact Eric Findlay on 0121 543 4800.

- **Severn Trent Approved RBC Remediation Framework Supplier**

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