



Welcome to the first issue of Techtorque for 2010. We will do our best to provide you with informative and relevant reading matter. Please email your comments and requests to our Sales and Marketing Manager, Chris Hoare, at [choare@acrodyne.com.au](mailto:choare@acrodyne.com.au)



## TESTING TIMES AT SUGARLOAF

Melbourne Water Project Director Rod Clifford (left) joins Alliance Construction Manager Matt Dinnison in turning on the water to begin wet testing of The Sugarloaf Pipeline. Acrodyne supplied Limatorque actuators complete with tamperproof covers for the pump station at Yea, these were direct mounted MX85's. A Limatorque actuator was also fitted to the submerged discharge valve located at The Sugarloaf Reservoir. This is a MX20 close coupled to a B320-50 bevel gear operator. The MX20 has been fitted with solid state reversing contactors due to the duty cycle. Acrodyne also supplied PS-Automation actuators associated with the pump cooling system at the pump station as well as manual gearboxes, field support and field commissioning services.

## THE SAFE SOLUTION

The recently introduced Noah spring return electric actuator has hit the market with 4 x SR10s supplied to a storm water recovery scheme in South Australia to suit 100mm B'Fly valves. Another 2 x SR05s were supplied for a fly ash plant at the Tarong Power station in Queensland, these were also to suit 100mm B'Fly valves.

Noah have added the 24 V DC option to the SR range which makes the SR series available in 415 V AC 3 ph, 240 / 110 VAC 1phase and 24 V DC.

Noah spring return electric actuators are the most economical and reliable choice for fail safe application. On loss of power, the actuator travels in 1 or 2 seconds (SR05 / SR10 = 1 sec and SR20 = 2 sec), to a pre-configured open or close safe position.

Each actuator is bench tested at Acrodyne and supported in the field by qualified experienced technicians.



## VIBRATION NO LONGER THE DEATH OF ACTUATORS

Vibration can often be the devil when it comes to electric actuators. Recently Acrodyne have combated this problem by using a Beck modulating actuator capable of seeing 5g of vibration and designing in a rubber mounting arrangement that has minimal deflection when the actuator is being driven. The fluid drives will see on occasions vibration over 7g.

The robust design of the Beck actuator and the addition of the mounting design will provide a highly reliable solution for the coal based Power Generator in Victoria. The Beck units are now being used in a number of Power Stations for similar control throughout Australia.



# MAKING OLD NEW AGAIN

Steve McCormack, Acrodyne's NSW Service and Sales Technician recently had a service enquiry from Transfield Services on behalf of the Sydney Catchment Authority. The products in question were 20 year old Limitorque actuators installed at the Nepean dam site, just one of the many sites throughout



ORIGINAL FEEDBACK UNIT

Australia where Limitorque are installed. The actuators have been running well, but required an upgrade to the position feedback

system to give utilisation of the latest technology.

Steve installed a universal signal converter which incorporated more features than the original 20 year old technology, had the same footprint as the original feedback unit but still allowed the hinged panel to be opened to adjust the limit switches. The installation and commissioning took less than 2 hours to perform, was all done on site and came in under budget.

Another great result for the customer.



COST EFFECTIVE REPLACEMENT UNIT

The Next Generation in  
**Smart Actuation**



**Limitorque MX is the smart multi-turn actuator that delivers what you want.... plus much more**

- User friendly LCD display
- Patented absolute encoder
- B.I.S.T. (built in self test)
- State of the art control platform
- Fast commissioning
- Non Intrusive setup
- More control flexibility

**The actuator that doesn't need batteries to keep its memory**



## Upcoming Events

### Australian Oil & Gas Conference & Exhibition

24-26 March 2010 - Perth Convention Exhibition Centre

### WIOA Water Industry Engineers and Operators Conference

21-22 April 2010 - St Stanislaus' College Performing Arts Centre Bathurst, NSW

See new offerings from Camtorc and Schischek

## ACRODYNE'S SOCIAL CLUB REVS UP

Acrodyne recently created a social club committee to encourage camaraderie and a happy work place, with the latest event being go kart racing at the Le Mans Outdoor track.

The winner of the day was Chris Hoare's son Gerard (never to be invited again). A special mention should go to Chris Hoare on his poor performance 4th and 5th in respective heats.



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Actuation and Control

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