



For **Severe Service** Control Solutions, Turn to Fisher Technology and Innovation

NotchFlo™ DST ELIMINATES UNNECESSARY MAINTENANCE COSTS

For several years, an Alberta, Canada power plant was having repeated issues with its boiler feedpump recirculation valves. The valves required trim replacement every three months due to cavitation and erosion damage. In order to ensure that parts were available for the eight valves, the plant rotated nearly 30 trim sets through the valves. Once a valve was brought down for maintenance, the trim was removed, sent out for weld repair, and then placed on the shelf to be used again in one of the recirculation valves.

After reviewing the application and the valve selection, it was determined the valves did not possess any means of staged pressure control, thus exposing them to the effects of damaging cavitation. Because of the damage caused by cavitation, the valves were also prone to excessive leakage. Since these valves are normally closed, the leakage led to increased boiler feedpump horsepower demand.

In order to address the issues with damaging cavitation, the plant purchased two NotchFlo™ DST (dirty service trim) valves. The NotchFlo DST is a multi-stage anti-cavitation trim that utilizes a series of notched flow restrictions and expansions to control pressure drop and thereby prevent cavitation problems.

The valves also incorporate a protected seating feature to provide long lasting, tight shutoff. Unlike linear style anti-cavitation trims, no pressure drop occurs across the seating surface thus protecting against low flow and high velocity erosion effects. The trim is also designed to pass entrained particulate, which eliminates issues with reduced capacity and potential erosion effects.

Based upon the success of these valves, the plant will replace an additional six problem valves. Just by replacing these two valves, the plant is saving over 50 hours of maintenance and trim repair activities each year. This alone justified the cost of replacement.



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