

Gypsum Slurry Isolation

Case Study: Cincinnati, Ohio
December 2008

Industry: Power

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Process Conditions:	
Size	10"
Valve Model	CSV Style Slurry Knife Gate
Quantity	2 pcs
Temperature	180° F Max
Application	Slurry Isolation at Hydroclone Recycle Hydroclone blowdown 6 – 8 valves in plant
Media	Gypsum slurry from an FGD (Flue Gas Desulfurization) process. 1000 ppm Chlorides PH is 8 to 12
Pressure	40 psi
Problem	An artificial gypsum FGD process has isolation valves that leaked continuously after limited service time. The valves are actuated approximately 3-4 times per day in normal operation. The customer had tried numerous elastomer lined valves in the application that had given limited service life in the application. A comment was also made that "We can't find a valve that works in the application" and had described the process conditions as "pumping sand and water". The lower body cavity and gate had been consumed due to the highly abrasive flow conditions.
SKYCERA Solution	SKYCERA [®] offers an CSV Style Slurry Knife Gate valve into the application. The valve has a fully lined port area and the internal cavity has our proprietary SKote protective coating to resist corrosion on the internal cavity of the valve due to the moderately high chlorides content. Update: 2/22/2011 – Valves have been functioning exceptionally well since installation and plant is considering buying additional valves for this same application.