

Application story



Phosphate Injection for Power Plant

Location	USA	Hydra-Cell model	P300NSTSSA05S
Type of application	Phosphate Injection	Flow rate	136.6 L/hr (36 G/hr)
Liquid	Phosphate	Pressure	Up to 167 bar (2425 psi)
Application details	Severe flooding put a US power plant anywhere from 3 to 8-ft. (0.9 to 2.4 m) underwater and damaged chemical-feed systems beyond repair. In order to restore operations – injecting phosphate into drums to run steam turbines – the company decided to standardise four identical skid systems instead of using three different pump models as in the past. Three (3) Hydra-Cell Metering Solutions P300 pumps were installed on each skid to provide both high pressure (HP) and intermediate pressure (IP) delivery, plus one back-up pump to handle either service. Hydra-Cell was selected because one pump model provides reliable HP, IP, and back-up service while streamlining the skids. The power plant also chose Hydra-Cell because it can run dry without damage and its ability to pump solids—up to 200 microns in size for the P300.		
Advantages of Hydra-Cell pump on this application	Hydra-Cell was chosen for this application for the following reasons: - The ability to handle multiple duties (High & Low pressure) with a single pump. - Capable of pumping this non-lubricating liquid with particles with ease. - Know reliability; Vitally import at the time of use.		

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