

## **FOR IMMEDIATE RELEASE**

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## **LADWP Castaic Governor Upgrade Project Awarded**

WARMINSTER, PA – (June 14, 2010) – American Governor Company (AGC) has been awarded a subcontract by Systems Integrated (SI) to provide six digital governor systems as part of an overall plant automation and protection project for the Los Angeles Department of Water and Power (LADWP) Castaic pumped storage powerplant near Los Angeles, California. Equipment is scheduled to be delivered starting in 2011.

The impressive Castaic Pumped Storage Facility is a dual purpose project. Integrated into the West Branch of the California State Aqueduct, the project delivers both drinking water and power to Southern California residents. Some water is pumped from Castaic Lake to Pyramid Lake during periods of low power demand and used to generate power during peak power demand periods. The powerhouse features six 240-megawatt main pump-generator units and one 55-megawatt conventional unit, and it is the largest of LADWP's hydro powerplants.

American Governor will be responsible for providing equipment, engineering, and site services for the replacement of two Voith digital governors and four Woodward digital governors. For enhanced availability at this important facility, LADWP specified extensive control redundancy for the overall plant automation system and also specified dedicated, redundant digital governor systems. In the event of a processor, power supply or input/output module failure, the redundant governor controller will take over control to keep the unit on-line. Dedicated governor systems will also provide optimum real-time governor performance and enhance multiple-unit synchronization, improving LADWP's ability to dispatch power from the plant. In a previous automation project, unit governor algorithms were integrated into a higher-level plant control system. That approach proved unsatisfactory and the current project represents a change in philosophy.

New electrohydraulic control manifold assemblies will be provided for all units. The existing electronic position and speed feedback systems will be retained. Separate control functionality will be provided for Pump and Generate modes, and the new governor systems will communicate with the new plant control and monitoring systems provided by Systems Integrated.

The evaluation process for LADWP included consideration of prospective company's past experience controlling pump/turbine units, their technical capability, and their past performance references for governor upgrades. American Governor's previous successful work on large pumped storage projects demonstrated that the company has the necessary technical expertise, engineered products, management and site supervision to ensure a smooth and successful project. American Governor has provided over 150 digital governor systems and has supported over 1000 hydropower plants with parts, field service, and/or training.

American Governor Company provides fully engineered digital governor conversion systems for hydro plants, including PLC-based digital controls, electrohydraulic valve manifolds, hydraulic power units, electronic feedback devices and unit/plant control and monitoring systems. Installation, start-up, commissioning and field training services are provided by our staff of experienced governor specialists and field service engineers.

AGC also provides full support for legacy governor systems, including a complete line of replacement parts for all types of Woodward governors and a growing inventory of new and reconditioned parts and assemblies for other OEM governors including Pelton and Allis-Chalmers. Field service, training, retrofit kits and technical support are also available for these legacy governors. American Governor's Training and Repair Facility near Stevens Point WI offers factory repair services for governor pumps and permanent magnet generators, and an annual Governor School. For more information, please visit <http://www.americangovernor.com>