YOUR #1 SOURCE FOR HYDRO GOVERNOR PARTS, SERVICE, TRAINING, DIGITAL CONVERSIONS & COMPLETE GOVERNOR SYSTEMS FOR NEW UNITS.
American Governor is truly a full service governor company, offering parts, service, training and technical support for legacy governors, as well as complete custom-engineered digital conversion packages. American Governor personnel have over 600 years of combined governor experience and have provided parts, service or training to over 1500 powerplants worldwide. The experience, integrity, responsiveness and technical capability of our team explains why we have developed a strong and loyal following in the hydro industry. We regularly do business with every major hydro owner in North America. Our annual Governor School in June draws over 100 industry professionals seeking theoretical knowledge and practical training on everything from the oldest mechanical governor to the newest PLC digital governor. We are committed to keeping your governors — new or old — running reliably and efficiently for as long as you wish to keep them in service.

American Governor Company has restored the level of support you once depended on the OEM to provide: support that you have grown to trust and expect. Our goal is to provide the highest quality parts, field service, technical support, training, engineering and digital upgrades at the best price. With regional facilities located throughout the United States, we’re close to you.

**LEGACY GOVERNORS**

For legacy governors ranging from mechanical flyball to analog electric to early digital governors, we offer new and refurbished parts, experienced field service and expert training. With our huge inventory of new and reconditioned governor parts, we can often provide the part you need overnight, if necessary. Our Factory Training and Repair Facility provides complete factory repair and overhaul services for many types of governors, oil pumps and Permanent Magnet Generators. Our governor specialists can answer your maintenance questions and provide troubleshooting assistance over the phone. We also offer factory and on-site training to customers who wish to build their staff’s familiarity with the maintenance and calibration of existing equipment.
If your unit control requirements have changed due to new operational needs, a digital governor conversion may be appropriate. American Governor is a leading provider of digital governor systems and hydraulic power units. We have commissioned or have orders in place for over 500 digital governor systems. Our custom-engineered systems are built around industry-standard PLC and hydraulic technology, our proven governor algorithms and your specific needs. All our digital governors are fail-safe and some feature electronic and hydraulic redundancy to continue operation in the event of a single point failure. We can incorporate other unit control features like unit start/stop sequencing, automatic synchronizing, synchronous bypass valve operation, six-needle sequencing, pump-turbine control and downstream flow control modes. We have extensive experience using PLCs from Rockwell/Allen-Bradley, Telemecanique/Schneider Electric/Modicon, GE, Siemens and ABB.

Operator interfaces range from a local color touchscreen to a complete PC-based plant monitoring system. All our digital governors and control systems are completely tested on our Turbine Simulator before leaving our factory. Various other field devices are also simulated to ensure the system hardware and software are working properly before the equipment arrives at your powerplant, reducing start-up and commissioning time.

Legacy Governors

Digital PLC Governors
NEW AND RECONDITIONED SPARE PARTS

We supply new and reconditioned replacement parts for many hydro governors including:

WOODWARD:
- Gateshaft Governors and GS Actuators
- Mechanical Cabinet Actuators
- Analog Electric Actuators including MOD I / MOD II
- Digital Governors (all models)
- A-Actuators
- 20 Series Pumps
- Oil Pumps, Unloaders and Pilot Valves
- Reconditioned XX Pumps and Unloaders
- Permanent Magnet Generators (PMGs)
- Speed Signal Generators (SSGs)
- Speed Switches

OTHER MANUFACTURERS WE SUPPORT:
- Allis-Chalmers
- Alstom
- Andritz
- ASEA/ABB
- GE
- L&S Electric
- Lombard
- North American Phoenix
- Pelton
- Voith
- and more!

Standard overhaul parts are typically in stock. Our warehouse stocks thousands of new parts, ready for same day shipment. Analog Electric and Digital Governor modules can be supplied, tested, and repaired. Obscure parts such as castings, shafts, and couplings are also available.

Our parts and products are guaranteed and manufactured to meet or exceed OEM specifications. We utilize MIL, ASTM, ANSI, and SAE standards to ensure consistent quality results, and we have improved upon many OEM manufacturing processes.

EXPERT FIELD SERVICE

Our field engineers are OEM-trained and have the skills and experience to keep your equipment running reliably and efficiently.

WE OFFER FIELD SERVICE AND TECHNICAL SUPPORT FOR A WIDE RANGE OF HYDRO GOVERNOR NEEDS, INCLUDING:
- Mechanical Overhauls, Routine Maintenance, Tuning and Adjustments
- System Troubleshooting
- Governor Testing (including NERC & Stability Tests)
- PID Tuning
- Governor Calibrations (including Driver Amplifier Calibrations)
- Digital Control Tuning
- Customized Long-Term Maintenance Programs
- PLCs from Allen-Bradley, Modicon, GE, Siemens, ABB

WE SPECIALIZE IN ALL WOODWARD EQUIPMENT INCLUDING:
- Gateshaft Governors
- Mechanical Cabinet Actuators
- Mod I & II, Mag Amp, Drawer
- Digital Controls, including NetCon™, Micronet™, Atlas™
- OpTrend™, Intellution™, and other HMI Systems
- Oil Pumps, Unloaders and Pilot Valves
- Permanent Magnet Generators (PMGs)
- Speed Signal Generators (SSGs)
GOVERNOR UPGRADES, RETROFITS, AND ENGINEERING SERVICES

When it is time to either enhance your existing Governor or perform a complete Mechanical to Digital conversion, we can supply the Engineering, Field Support, and Hardware required.

CUSTOM ENGINEERED SYSTEMS:
- Digital Governor Systems with Touchscreen Interface
- Electrohydraulic Interfaces - Simplex or Redundant
- Governor Oil Systems - High or Low Pressure
- Unit Control Systems with Touchscreen Interface
- Plant Control Systems with Historical Data Archiving

PRE-ENGINEERED RETROFIT KITS:
- Standard Governor Retrofit Kit with Color Touchscreen Operator Interface
- Digital Interface Kits - an economical alternative to a Digital Governor Upgrade
- Solenoid-Operated Pump Unloader Kits - replaces mechanical “Snap-Action” pilot valve and mechanical unloaders
- 3-D Cam Kits - replacement for the Zilog CPU controller, uses your existing gate, blade and net head signals
- Selsyn Replacement Kits - replace Selsyn transmitters and receivers with 4-20mA devices
- Speed Switch - electronic replacement eliminates auxiliary speed switches
- Kidney Loop Oil Filtration Systems - provides continuous filtration of governor sump oil

ENGINEERING SERVICES

American Governor offers a comprehensive suite of engineering services to support all aspects of controlling and monitoring hydroelectric generating units. With over 600 years of collective experiences, we know more than just governors.

We understand fundamental theories behind the governor and the voltage regulator, both of which are multiple closed-loop control systems. Beyond simple PID blocks, we understand the complex, dynamic effects the penstock and water-column can have on the stability of the turbine/generator. What’s more, the gains of one system can affect the stability of the other!

Our Hydro Specialists are ready and able to share this wealth of practical experience. One of our Governor Specialists has over 45 years of hydro governor experience, while another specialist has decades of experience as the Maintenance Supervisor for a 1,200MW Pumped Storage Plant.

Working with American Governor is unlike any consulting engineering experience you have had before. If you need a technical specification, we have a dozen to choose from: everything from Small/Simple/Economical to Large/Complex/Expensive. We will ask you to complete our Upgrade Checklist, then schedule a time when we can conduct a plant inspection.
We will review your stated needs and preferences, then lay out a range of solutions that achieve your goals in different ways. If you own legacy governors, don’t be surprised if we offer Overhaul as a viable, low-cost alternative to Convert to Digital. Our written inspection report will detail our findings and provide technical justifications for our recommendations.

If a digital conversion is indicated, we’ll let you choose the control platform you prefer. Since American Governor is platform-independent, we never try to shoe-horn customers into OUR preferred solution. We’ll help you develop YOUR preferred solution. It’s as simple as that. Really.

We understand hydro, and are ready, willing and able to share that knowledge with our customers.
“CONSISTENTLY SUPERIOR.”

- Maintenance Manager at a Top 10 Hydro Utility

COMPLETE SERVICE FACILITY
Our fully equipped Wisconsin Training & Repair Facility is ready to support all of your governor and accessory system repair needs. We have overhauled or repaired dozens of Woodward and Pelton PMGs and over 120 Woodward XX-Herringbone Gear Pumps.

From motor rewinds to distributing valve bushing and plunger replacements, we can take care of all your governor repair and refurbishment needs.*

FULL TECHNICAL SUPPORT
We have qualified personnel with many years of field experience available to assist you with your questions or governor problems. We can help guide you through the troubleshooting process and offer technical support for governors and associated equipment from all manufacturers. Plus, our Field Service Engineers are well versed in all aspects of hydro powerplant performance, from the penstocks to the draft tubes.
COMPLETE TRAINING SERVICES

American Governor offers a full range of factory and on-site training classes. On-site classes are specially designed to cover the particular equipment at your site and your specific training needs. On-site training classes include an overhaul and calibration of one of your governors.

Each year in June, we offer our highly-rated Governor School. This three-day training workshop combines fully-operational governors and cutaway displays with in-depth classroom sessions to provide an intensive learning experience. With the opportunity to learn about many different governor types, attendees rave that this is a training class unlike anything they have ever experienced.

We also offer a series of Focus Classes, multiple times throughout the year. With smaller class sizes and an exclusive focus on one particular governor type, these two and three-day training seminars offer advanced training and more hands-on learning opportunities for all attendees.

TYPICAL TRAINING TOPICS:

- Governor Theory, Droop and Stability
- Mechanical Components and their Operation
- Electrical Components and their Operation
- Regular Maintenance Activities
- Governor and Pump Adjustments and Troubleshooting
- Hands-on Overhaul and Troubleshooting Sessions
American Governor has a growing presence in the world market, with projects on every continent* and in over 59 countries around the world. We support our International customers with: spare parts, field service, troubleshooting, and training, and digital governor conversion systems, when applicable. We have achieved this international presence through collaborative relationships with OEM’s, end-users, and engineering companies. In the future we will have Regional Governor Support Centers in key locations around the world. These will be staffed by direct employees of American Governor, who will be fluent in several local/regional languages. They will be first point of contact for our International customers and will enable us to provide even quicker response to International parts and service requests.

* except Antarctica. We will continue to explore that continent, looking for fresh water in its liquid state.

FLEET MAINTENANCE

In early 2015 we will offer a cloud-based 24/7/365 Tech Support Call Center and Long-Term Governor Maintenance Support Plans for types and models of hydro governors. The rationale behind the maintenance plans (there will be three levels) is that many hydro utilities have lost their native governor expertise and would appreciate a plan that basically turns their hydro governor systems into copiers. “If it breaks for any reason, we’ll send a tech to fix it!” We often hear from customers who are not having any problems with their legacy governor but think they should replace it with a digital governor simply because they have no one to maintain it. With a maintenance contract in place and responsive, knowledgeable governor specialists ready to travel at a moments’ notice, any lingering concerns about legacy governors tend to evaporate.
NORTHWEST OFFICE
Contact: Roger Clarke-Johnson
          Lori Bergren
          Kirkland, WA
          Phone: (425) 821-8076
          Fax: (425) 821-4127
          Email: rogercj@americangovernor.com
          lorib@americangovernor.com

SOUTHEAST OFFICE
Contact: Alan Fox
          Tandi Trent
          Maynardville, TN
          Phone: (865) 992-1123
          Fax: (865) 992-2921
          Email: alanfox@americangovernor.com
          ttrent@americangovernor.com

MIDWEST TRAINING & REPAIR CENTER
Contact: Steve Woblewski
          Sara Karolus
          Amherst, WI
          Phone: (715) 824-3800
          Fax: (715) 824-5979
          Email: stevew@americangovernor.com
          sarak@americangovernor.com

BRAZILIAN REGIONAL OFFICE
Contact: Suzane Frisselli
          São Paulo, Brazil
          Phone: +55 (11) 3440 0881
          Fax: +55 (11) 3666 9016
          Email: sfrisselli@americangovernor.com

MEXICAN REGIONAL OFFICE
Contact: Jorge F. Pérez
          Cuernavaca, Morelos, Mexico
          Phone: +52 (777) 317 6655
          Cell: +52 (777) 703 3898
          Email: jperez@americangovernor.com

CORPORATE HEADQUARTERS
27 Richard Road
Ivyland, PA 18974
Phone: (215) 354-1144
Fax: (215) 354-1792
Email: info@americangovernor.com

For more information, visit our new, improved website: www.AmericanGovernor.com