



**JENKINS**

**FULL-SERVICE  
HYDRO SOLUTIONS**



# NOW OFFERING COMPLETE HYDRO SOLUTIONS

Jenkins is proud to offer industry-leading hydro solutions, including full-service electrical and mechanical repair and testing. We've been working with hydroelectric power generation companies for 75 years, taking on repair, rewind and testing services both on-site and in-house. We've also built and installed custom static excitation units that eliminate the need for ongoing maintenance. Our skilled team of technicians, machinists and engineers can assist you with complex projects and large capacity needs.



# HYDRO GENERATOR SOLUTIONS

## ELECTRICAL SERVICES

- Hydro generator repair, rewind & testing
- Generator inspection
- Engineering, design & consulting
- On-site dry ice cleaning
- Surge, hipot & voltage drop testing
- Partial discharge & flux monitoring & testing
- Stator lamination restack
- Static exciter repair & conversion
- Vibration analysis & monitoring

## MECHANICAL SERVICES

- Turbine & generator disassembly & reassembly
- Wicket gate repair
- Collector ring & brush holder machining
- Bearing journal repair & sleeve replacement
- Shaft repair & machining
- Turning & milling (72" diameter, 31' length)
- Cavitation weld repair
- Servo motor rehabilitation
- Foundry services to cast broken or formerly irreplaceable parts

## CONTROLS FOR HYDRO GENERATION

- Static excitation systems
- Governor installations
- Relay testing
- Plant automation & monitoring
- Electrical troubleshooting
- Lube oil pump starters



Our open-source design contains off-the-shelf components and allows for local support.



# THE JENKINS EXCITATION SYSTEM

Seven in-house engineers collaborated to build our custom static excitation system, focusing on adaptability, durability and cost-effectiveness.

- Removes the need for ongoing maintenance associated with rotating excitation
- Open-source approach with off-the-shelf components, eliminates single-source service
- Local support, data recording and system control
- Remote access for troubleshooting
- Simple upgrades for longevity
- Eliminates single source service
- Cost-effective for run-of-river generators



Our static excitation system comes with turnkey development, implementation and support.



All of our services are backed by more than a century of experience. Our team is standing by to answer all your questions.

## OUR IN-HOUSE FOUNDRY

When the part you need is obsolete or hard-to-find, the Jenkins foundry stands at-the-ready. We're able to remanufacture from a sample or print, and cast in aluminum, bronze, brass or copper. The ability to create custom parts is critical for hydroelectric generators, especially when you consider that they serve as some of the oldest power plants in the nation, with the average hydroelectric facility operating for 64 years.

## JUST CALL JENKINS

There's no challenge, large or small, that our machinists, engineers and technicians can't wait to tackle. That's why across industries, our customers know they can "Just Call Jenkins" for the expertise and help they need at 800-438-3003. Of course, you can also reach out to us 24/7 via email at [answers@jenkins.com](mailto:answers@jenkins.com) or stop by during shop hours.

[ANSWERS@JENKINS.COM](mailto:ANSWERS@JENKINS.COM)

P: 800-438-3003 F: 800-392-2612

5933 BROOKSHIRE BOULEVARD, CHARLOTTE, NC 28216

[JENKINS.COM](http://JENKINS.COM)  
[JENKINSELECTRIC.COM](http://JENKINSELECTRIC.COM)

**JENKINS** 