

W.E.S.T. USA, INC. OFFERS A WIDE RANGE OF SERVICES AND SOLUTIONS FOCUSED PRIMARILY ON THE HYDROELECTRIC INDUSTRY.

DIAGNOSTIC AND ANALYSIS

- Vibration analysis
- Dynamic analysis of hydraulic system and related interactions.
- Fault diagnosis and evaluation of hydromechanical components.
- Noise analysis..
- Analysis and optimization of hydraulic systems.

COMMISSIONING

- Factory verification checks at manufactures.
- Supervision of component removal/installation.
- Data acquisition behavior of machinery through full operating range and during transients.
- Optimization of control parameters and regulation.
- Balancing and alignment of rotating components.

SPECIALIZED SUPPORT & TRAINING

- Subject Matter Experts.
- Preparation of technical specifications.
- Verification of compliance with various codes.
- Training courses for highly specialized activities.
- Powerplant training plan and program development.
- Powerhouse/dam equipment and operational technical manual preparation, and institutional knowledge collection and archiving.
- Project Management.
- Advisory consulting.

TESTING & PERFORMANCE VERIFICATION

- Performance verification with thermodynamic method.
- Efficiency verification with current meter method.
- Efficiency verification with dye tracer method.
- Efficiency verification with pressure/time method.
- Efficiency verification with ultrasound method.
- Control and performance optimization for index tests.
- Flow rate measurements in cooling systems using calibrated turbines, electromagnetic flow meters, or mounted ultrasound devices.
- Pressure and level measurements and pressure drop determination and characterization of the different components made with strain-gauges or quartz precision transducers equipped with microprocessors for compensation and linearization.
- Precision electrical measurements downstream of unit metering with three-phase digital devices.

WEST supports all pump/turbine-motor/generator manufactures equipment.



GE Renewable Energy



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