



## Start-up & Commissioning Services

Using Northeast Power Systems, Inc. (NEPSI) Start-up and Commissioning Services is the best way to ensure faster, safer, and more efficient implementation of your NEPSI built metal-enclosed power capacitor banks, harmonic filter banks, and actiVAR™ products. Leave it to NEPSI, the company that knows the equipment.



### Plan for Success

NEPSI's Start-up & Commissioning Services provide the people and know how to ensure faster, safer, and more efficient installation and implementation of your medium-voltage metal-enclosed power capacitor banks and harmonic filter banks. With over 20 years of start-up and commissioning experience, NEPSI identifies issues before they become problems.

Proper start-up and commissioning of our metal-enclosed products and their associated control and protection systems is vital to their long-term health and operation. Improper installation and commissioning are the leading causes of premature failures, mis-operation, and poor performance. With NEPSI's Start-up & Commissioning Services, you can be assured that your equipment has been installed properly and meets the factory standards for operation. Get the most out of your equipment, hire NEPSI.

### Right From the Start

NEPSI provides services during all key phases of your start-up operation:

- Receipt of equipment at site
- Pre-commissioning and installation checkout
- Start-up and live operation testing
- Operation and maintenance training
- Post-commissioning support

### The Right People

- Experienced and specialized
- Trained for safety; MSHA, OSHA
- Routine drug screening
- Fully insured



## Key Elements of Start-up & Commissioning

NEPSI's Start-up and Commissioning Services include some or all of the following:

### Prior to site work

- Preparation of necessary documentation
- Preparation of start-up and shut-down procedures
- Contact with site contractors to ensure equipment is onsite and ready for commissioning

### Pre-commissioning

- Physical inspection of equipment for damage
- Inspection and verification of proper installation
- Verification of internal and external power, grounding, and control wiring
- Confirmation that equipment passes NEPSI's factory tests

### Commissioning

- Safe power-up of control panels, meters, and relays
- Verification of relay and meter function and accuracy
- Testing data communications to external devices
- Verification to equipment performance requirements
- Demonstration of safe and correct equipment operation

### Post Commissioning

- Ongoing support and performance optimization
- Software changes to meet changing site requirements

## Documentation

NEPSI provides a full documentation package for start-up and commissioning. Our documentation package includes:

- Site Observations
- Corrective actions taken
- Recommendations
  - Required for operation
  - Recommended but not required for operation
- NEPSI action items
- Customer action items
- Materials used
- Work Logs
- Installation checklist with exceptions listed
- Pre-commissioning checklist with exceptions listed
- Commissioning checklist with exceptions listed
- System Operating Parameters before and after equipment is put into operation.
- Operation concerns

## Get Started Today

For a quotation customized to meet your particular service needs, please contact NEPSI. Also visit NEPSI's webpage <http://www.nepsi.com/services> for additional information on our services and metal-enclosed products.

## Sustaining Your Operation

Once your metal-enclosed equipment is in operation, NEPSI offers a comprehensive range of services covering technical support, maintenance, upgrades, and continuing training for site personnel throughout the life of your system.