

STATEMENT OF WORK

1. Objective/Requirements

██████████ is in the midst of upgrading and restoring the 20 foot coil facility in area ██████████. Power supplies are required to maintain the necessary current in the coils to produce magnetic fields for testing.

The requirements for this procurement are:

- Acquire power supplies for running the 20 foot coil facility.
- Be capable of 4-quadrant operation.
- Be capable of 12A of current at 36V.
- Have both constant-current and constant voltage mode.
- Be capable of operating as a voltage power amplifier (take an input programming voltage to set the constant output voltage)
- Be capable of operating as a voltage to current converter (take an input programming voltage to set the constant output current)
- Be optimized for driving inductive loads.
- Have a bandwidth of at least 100Hz

2. Characteristics, Scope, and Specs

- Kepco BOP 36-12DL power supply:
 - Baseline Specs:
 - 400W Power supply
 - Digital meter displays
 - Inductive load option
 - Voltage/current 4-quadrant stabilizer
 - 20kHz bandwidth in V mode, 10kHz bandwidth in I mode
 - Accessories
 - Unwired programming connector for BOP
 - 19" rack-mount hardware

3. Place of Performance

- These Power Supplies will be used in ██████████

4. Period of Performance

- These Power Supplies are expected to perform over the next 5 years.