

Nuclear Programs

Solidstate Controls, Inc. (SCI) has been supplying battery chargers, inverters, rectifiers, transformers, low voltage distribution panels and switchgear to the nuclear power industry around the world for nearly 30 years. Due to the critical nature of these applications, SCI has designed most of this equipment for a 40-year design life. To insure that equipment meets this requirement, each unit is subjected to environmental qualification, aging analysis, and testing in accordance with applicable IEEE and IEC standards.

In 1994, SCI made a strategic decision that even further exemplified our commitment to this industry. Understanding that Nuclear Class 1E clients require an additional level of management and control beyond that of other industrial clients, a new business unit was formed, known as the Nuclear Engineering Team (NET). The NET has dedicated itself to providing power and client service solutions to the nuclear power industry. To that end, the NET has developed client services that can be tailored to meet the specific requirements of our nuclear clients, as well as the stringent requirements of the industry. We maintain both a 10CFR50, Appendix B, (including 10CFR21) QA program, in addition to being ISO 9001 certified.

There are several ways in which the NET supports our nuclear clients with client services:

- “ Consulting and Design Change Reports (DCRs):
 - Direct replacement (form, fit and function) for obsolete inverters, rectifiers/battery chargers, transformers, low voltage distribution panels and switchgear (AC & DC), no longer manufactured or supported by other manufacturers, such as: Westinghouse, Elgar, Exide, Gould, C&D, PCP, Powertronics, Cyberex, plus others
 - Equivalency evaluation and reverse engineering of DC power supplies (Basler and ITT North Electric)
 - DC and AC standby (swing) 1E configurations

- “ Start-up, Preventive and Predictive Maintenance (PPM) and Training:
 - SCI staffs experienced service engineers and technicians qualified under 10CFR50 criteria to provide around-the-clock support
 - SCI can help support maintenance rule criteria of 10CFR50.65
 - PPMs, start-ups, and training classes can be scheduled around scheduled outages, or as needed

- “ Managed Inventory Agreements:
 - These Inventory Agreements can be custom designed to be either site specific, or a common plan for multiple sites
 - Provide forward site consignment of parts; JIT inventory administered by SCI
 - Fixed pricing for periods of 2-3 years; cuts paperwork, administrative time, and reduces costs

- “ Equipment maintenance and parts support management:
 - Site specific parts inventory and management
 - Root cause analysis
 - Obsolete parts replacement; automatic notification with equivalency report
 - Automatic response to Nuclear Regulatory Commission (NRC) “generic” and “informational” letters
 - All services are customized to your specific site needs