

STATEMENT OF WORK

PIER POWER MONITORING/UTILITY CONTROL SYSTEM (PPM/UCS)  
CLIN 0001

1.0 BACKGROUND. PWC San Diego headquarters is located on the Naval Station, San Diego and provides services to most of the major military bases in the San Diego area. Services include fleet support for the largest concentration of Navy ships in the world, utilizing 11.5 miles of dock space in San Diego Bay.

PWC San Diego operates and maintains a variety of utility systems to provide utility services required by their customers. These systems include electrical production and distribution systems, steam production and distribution systems, water distribution and sewage collection systems, natural gas distribution systems, compressed air production and distribution systems, and saltwater pumping and distribution systems. Operation of these systems requires continual real-time monitoring and control of vital system parameters to detect/correct abnormal system conditions. If such abnormal conditions are not quickly detected and corrected, system failures can result which threaten the ability of PWC San Diego to provide mission-critical utility services to our fleet and shore customers. In addition, PWC San Diego must determine the amount of utilities used by their various customers so they may be billed appropriately.

2.0 SCOPE. The scope of this effort is to provide, install, expand, maintain, repair, replace, and test systems that will monitor, control, analyze, and provide historical and billing information for utility services provided by PWC San Diego to their customers. This will be a predominately electrical Supervisory Control and Data Acquisition System (SCADA) and will be known as the PPM/UCS. The effort also includes providing, installing, maintaining and expanding communication systems, Local Area Networks, and Wide Area Networks in support of the PPM/UCS. This will be accomplished by individual delivery orders over a period of 5 years. All work shall be performed in accordance with the contract specifications and drawings included herein and additional specifications and drawings as required by delivery orders.

3.0 REQUIREMENTS. The contractor shall provide, install, expand, maintain, repair, replace, and test the PPM/UCS, the communication systems, Local Area Networks, Wide Area Networks, other utility-related control systems, and data acquisition systems. The following types of tasks may be required:

- A. Develop equipment installation plans.
- B. Provide/install PPM/UCS and other utility-related control systems hardware and software.
- C. Perform test and checkout of PPM/UCS, other utility-related control systems, and utility systems.
- D. Perform all necessary work required to support equipment installation. This includes design and accomplishment of minor facility modifications, demolition, removal, trenching, backfilling, electrical, electronic, control and mechanical work.
- E. Provide and install data transmission equipment, hardware and software, and interface with existing data transmission systems.
- F. Determine compatibility and interface requirements of proposed new equipment with existing equipment.

G. Provide/update system and component documentation, such as operation and maintenance manuals, as-built drawings, installation, engineering and product documentation, test and checkout procedures and other documentation specifically related to the PPM/UCS.

H. Provide operation and maintenance training on-site and at the contractor's facility as required by the contract specification. Other specialized training related to the PPM/UCS as defined in future delivery orders.

I. Provide maintenance service plans and schedules for all equipment provided under this contract.

J. Provide maintenance service for all equipment provided under this contract.

K. Provide reports as specified in the Contract Data Requirements List.

L. Troubleshoot and repair all equipment provided under this contract.

M. Perform special engineering services and studies relating to the installation, operation and maintenance of all equipment provided under this contract.

N. Develop, install and modify software relating to the PPM/UCS and related utility control systems.

O. Participate in on-site technical meetings.

4.0 PLACE OF PERFORMANCE. The place of performance will be specified in individual delivery orders.

5.0 PERIOD OF PERFORMANCE. The period of performance will be specified in individual delivery orders.

6.0 DELIVERY ORDERS. The contractor shall perform work as specifically authorized in individual delivery orders which will be issued by the Contracting Officer or a duly authorized Ordering Officer.

5.0 DOCUMENTATION. All required technical information, reports, and data shall be delivered in accordance with the Contract Data Requirements List (CDRL), DD Form 1423, Exhibit A and as may be required by CDRLs provided with individual delivery orders.

The contractor shall have computer aided design and drafting capability compatible with Microstation Version 5, and shall deliver copies of required drawings on 3 1/2 inch, 1.4 Mb magnetic disks and CD-ROM.

All contractor generated text shall be submitted on 3 1/2 inch, 1.4 Mb disks and CD-ROM in Word Version 5.0 and ASCII format, in addition to an unbound hard copy.